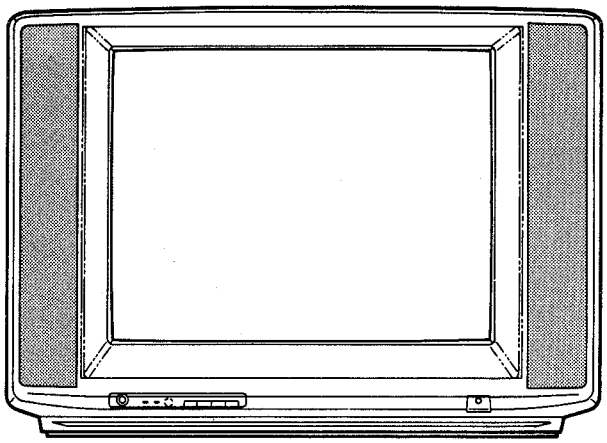
1713

SERVICE DATA
FILE NO. 050-535
10-SYSTEM

TOSHIBA
COLOUR TELEVISION
2122TF



SPECIFICATIONS

Input Power Rating:	AC 220 volts, 50 Hz 76 watts
Aerial Input Impedance:	75 ohm unbalanced type for VHF and UHF
Receiving Channels:	SECAM L Standard: VHF ..... channels (A) B to C, 1 to 6, B to Q, 71 to 86 UHF ..... channels 21 to 69 PAL B/G Standard, SECAM B/G Standard: VHF ..... channels 2 to 4, 5 to 12 and S1 to S20, S21 to S41 UHF ..... channels 21 to 69 PAL I Standard: UHF ..... channels 21 to 68 PAL D/K, SECAM D/K Standard: VHF ..... channels 1 to 12 UHF ..... channels 21 to 69 PAL, SECAM 50 Hz / 60 Hz (For Video Disk playback) 4.43NTSC (For VCR playback), 3.58NTSC (For VCR playback)
Intermediate Frequencies:	Picture I-F carrier frequency ..... 38.9 / 34.47 MHz (L VL) Sound I-F carrier frequency L System ..... 32.4 MHz (L VH, U) / 40.97 MHz (L VL) B/G System ..... 33.4 / 33.16 MHz I System ..... 32.9 MHz D/K System ..... 32.4 MHz
Picture Tube:	21 inches, A51EAL30X01, 510 mm (measured on diagonal of viewable picture area), 90° deflection
Sound Output:	10.0 watts (at 10% harmonic distortion) x 2
Speakers:	120 mm x 60 mm, 2 pcs
Aux. Terminals:	Headphone Jack, 21 pin socket, S-VIDEO/AUDIO socket, External speaker terminal, AUDIO OUT (Variable) / VIDEO OUT (Monitor)
Cabinet:	Table type
Dimensions:	Height ..... 463 mm Width ..... 654 mm Depth ..... 489 mm
Weight:	21.2 kg

Specifications are subject to change without notice.

Printed in Japan Jul. 1991 Go
1713

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. The E.H.T. must be checked every time the receiver is serviced to ensure that the C.R.T. does not emit X-ray radiation as result of excessive E.H.T. voltage. The nominal E.H.T. for this receiver is 27.8 kV at zero beam current (minimum brightness) operating at 220V a.c. The maximum E.H.T. voltage permissible in any operating circumstances must not exceed 29.0 kV. When checking the E.H.T., use the 'High Voltage Check' procedure in this manual using an accurate E.H.T. voltmeter.
2. The only source of X-RAY radiation in this receiver is the C.R.T. To prevent X-ray radiation, the replacement C.R.T. must be identical to the original fitted as specified in the Parts List.
3. Some components used in this receiver have safety related characteristics preventing the C.R.T. from emitting X-ray radiation.
   For continued safety, replacement component should only be made after referring the Product Safety Notice below.

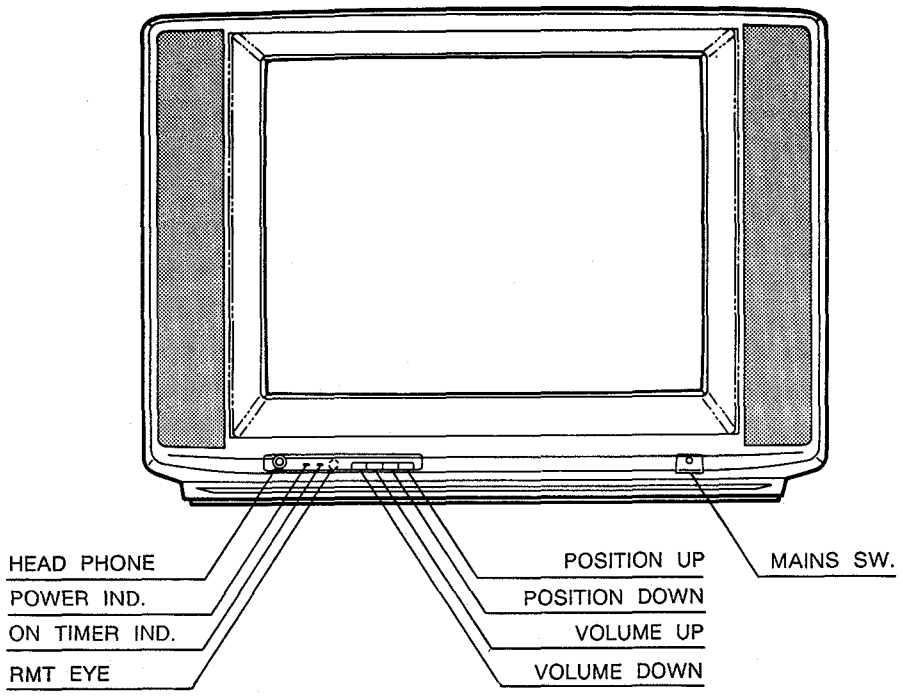
SAFETY PRECAUTION

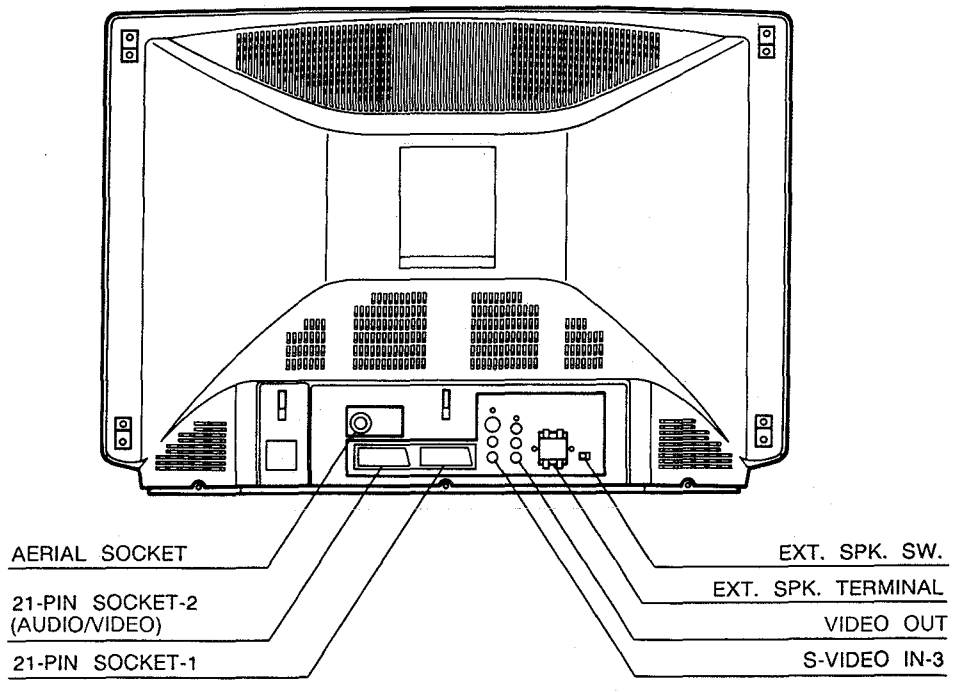
1. This receiver has a nominal working E.H.T. voltage of 25.0 kV. Extreme caution should be exercised when working on the receiver with the back removed.
   Do not attempt to service this receiver if you are not conversant with the precautions and procedures for working on high voltage equipment.
   When handling or working on the C.R.T., always discharge the anode to the receiver chassis before removing the anode cap
   The C.R.T., if broken, will violently expel glass fragments. Use shatter proof goggles and take extreme care while handling.
   Do not hold the C.R.T. by the neck as this is a very dangerous practice.
2. It is essential that to maintain the safety of the customer all cable forms be replaced exactly as supplied from factory.
3. A small part of the chassis used in this receiver is, when operating, at approximately half mains potential at all times. It is therefore essential in the interest of safety that when serving or connecting any test equipment the receiver should be supplied via a suitable isolating transformer of adequate rating.
4. Replace blown fuses within the receiver with the fuse specified in the parts list.
5. When replacing wires or components to terminals or tags, wind the leads around the terminal before soldering. When replacing safety components identified by the international hazard symbols on the circuit diagram and parts list, it must be a Toshiba approved type and must be mounted as the original.
6. Keep wires away from high temperature components.

PRODUCT SAFETY NOTICE

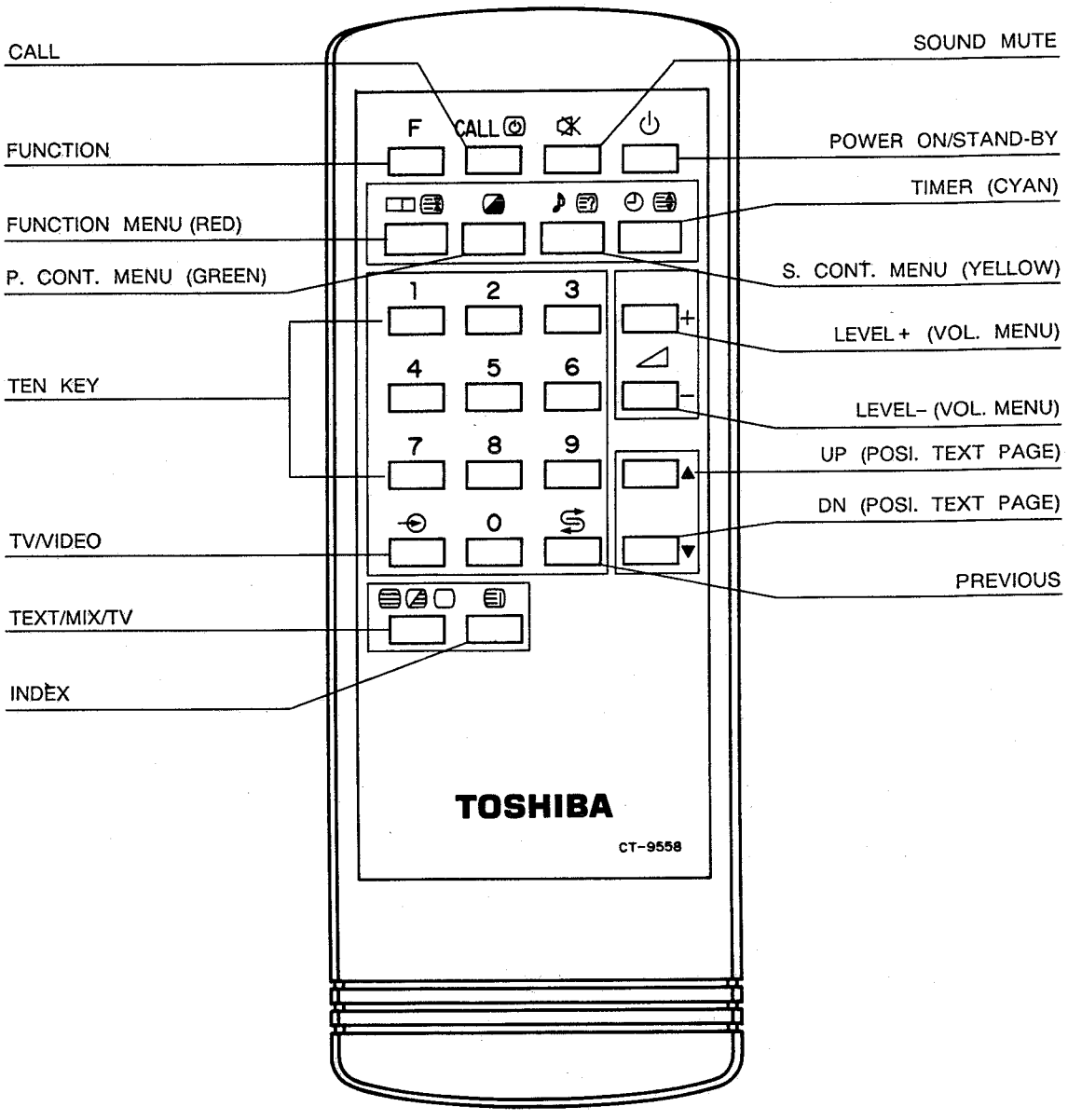
Many electrical and mechanical components in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-ray radiation protection afforded by them cannot necessarily be obtained by using replacements rated at higher voltages or wattage, etc. Components which have these special safety characteristics in this manual and its supplements are identified by the international hazard symbols on the schematic diagram and parts list. Before replacing any of these components read the parts list in this manual carefully. Substitute replacement components which do not have the same safety characteristics as specified in the parts list may create X-ray radiation.

FRONT CONTROLS AND REAR VIEWS





REMOTE HAND HELD UNIT



WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

INSTALLATION AND SERVICE ADJUSTMENTS

GENERAL INFORMATIONS

All adjustments are thoroughly checked and corrected when the receiver leaves the factory. Therefore the receiver should operate normally and produce proper colour and B/W pictures upon installation. However, several minor adjustments may be required depending on the particular location in which the receiver is operated.
This receiver is shipped completely in cardboard carton. Carefully draw out the receiver from the carton and remove all packing materials. Plug the power cord into a convenient 220 volts 50 Hz AC two pin power outlet. Turn the receiver ON. Check and adjust all the customer controls such as BRIGHTNESS, CONTRAST and COLOUR Controls to obtain natural colour or B/W picture.

AUTOMATIC DEGAUSSING

A degaussing coil is mounted around the picture tube so that external degaussing after moving the receiver is normally unnecessary, providing the receiver is properly degaussed upon installation. The degaussing coil operates for about 1 second after the power to the receiver is switched ON. If the set is moved or faced in a different direction, the power switch must be switched off at least one hour in order that the automatic degaussing circuit operates properly. Should the chassis or parts of the cabinet become magnetized to cause poor colour purity, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube, the sides and front of the receiver and slowly withdraw the coil to a distance of about 2 m before disconnecting it from AC source. If colour shading still persists, perform the COLOUR PURITY ADJUSTMENT and CONVERGENCE ADJUSTMENTS procedures.

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis.

1. Connect an accurate high voltage meter to the second anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST Controls to minimum (zero beam current).
3. High voltage will be measured below 29.0 kV.
4. Rotate the BRIGHTNESS Control to both extremes to be sure the high voltage does not exceed the limit of 29.0 kV under any conditions.

HEIGHT ADJUSTMENT

1. Receive the WG PHILIPS pattern, and set the contrast and colour to centre, and the brightness to centre.
2. Change the VERT POSITION SW (S301) so the round shape in the pattern is located in the centre of screen.
3. HEIGHT Control (R351) on MAIN Board changes the size of the picture or pattern, having an equal effect on the top and bottom. Make final adjustment to overscan the mask 2 cm at top and bottom.

HORIZONTAL CENTRE ADJUSTMENT

1. Receive the WG PHILIPS pattern.
2. Set the contrast and colour to centre, and the brightness to centre.
3. Adjust Sub Address HPS so the pattern centre can be located at the screen centre.

FOCUS ADJUSTMENT

Adjust FOCUS Control on FLYBACK TRANS. (T461) for well defined scanning lines in the centre area on the screen.

SIF CONVERTER (L662)

1. Connect pins SIF1 and SIF2 of PG01 on STEREO Board to ground.
2. Supply + 12V to pin SN of PG01.
3. Connect SIF generator to pin SO of PG01.
   SIGNAL: F = 5.5 MHz Vim = 100 dBμ
4. Connect DVM to pin SM of PG01.
5. Adjust L661 for the maximum reading on the meter.

PAL MATRIX ADJUSTMENT

1. Tune in the colour programme of the Philips pattern.
2. Set the COLOUR Control to obtain the proper colour.
3. If the PAL MATRIX adjustment is incorrect, the Venetian Blind would appear in the colour bars area. This case needs the adjustment.
4. At the first, adjust DL PHASE ADJ. Coil (L551) to minimize the Venetian Blind.
5. Next adjust 1H-DL ADJ. VR (R551) to minimize the Blind.
6. If the Venetian Blind still remains, adjust 1H-DL PHASE ADJ. Coil (L551) to minimize the Blind again.
7. Repeat the item 5 and 6 procedures, adjust the R551 and L551 until the Blind does not appear.

BELL COIL (LM01) ADJUSTMENT

1. Receive SECAM colour bar signal.
2. Connect the synchroscope to the terminal Pin 2 of LM01.
3. Adjust LM01 for the flat level of amplitude in each colour bar waveform on the scope. (See figure 1.)

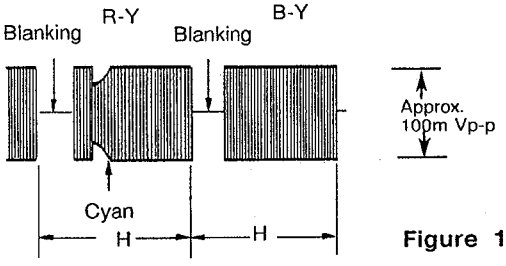


Figure 1.

IDENT COIL (LM04) ADJUSTMENT

1. Receive SECAM colour bar signal.
2. Connect the DC voltmeter (Digital Voltmeter) to the pin 23 of IC501.
3. Adjust LM04 for the maximum indication (approx. DC10V) on the meter.

B-Y, R-Y DEMOD COIL (LM02, LM03) ADJUSTMENT

1. Receive SECAM colour bar signal.
2. Set the COLOUR, BRIGHTNESS and CONTRAST Controls free.
3. Connect the synchroscope to the pin 62 of IC501.
4. Adjust LM02 so that the white level in picture part reaches to the vertical retrace line. (See figure 2.)
5. Then change the connection of synchroscope from the pin 62 to the pin 60 of IC501.
6. Adjust LM03 so that the white level in picture part reaches to the vertical retrace line. (See figure 3.)

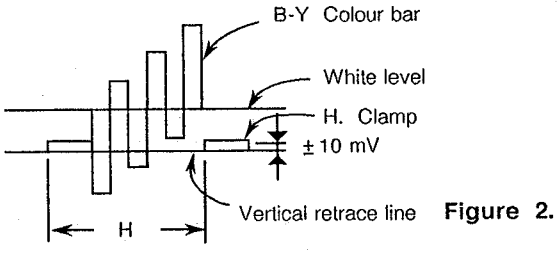


Figure 2.

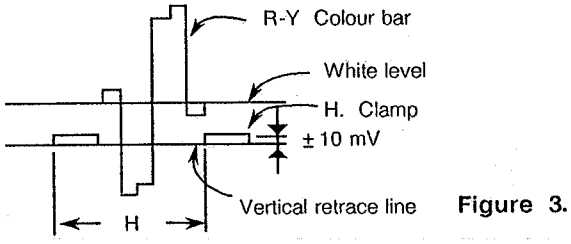


Figure 3.

CRT GREY SCALE ADJUSTMENT

1. Tune in an active channel.
2. Set "SERVICE MODE" by RMT H.H.U. (Ⓕ + ⊖ and ①, ⓪, ④, ⑧)
3. Turn the SCREEN Control (on T461) fully counter-clockwise.
4. By rotating the RED, GREEN and BLUE CUT OFF Controls (R557, R558, R559) to the mid position.
5. Set the GREEN and BLUE DRIVE Controls (R252, R253) to the center.
6. Set the "CUT OFF (No Vertical Deflection) MODE" by RMT H.H.U. (Ⓕ + ② key)
7. Rotate the SCREEN Control gradually clockwise until the first line appears slightly on the screen. Set the SCREEN Control to this position.
8. Adjust the CUT OFF Controls to obtain the slightly lighted horizontal lines in the same levels of three colours (RED, GREEN and BLUE). The lines may look like white if the CUT OFF Controls are adjusted properly.
9. Release the "CUT OFF MODE" by RMT H.H.U. (Ⓕ + ② key)
10. Set the CONTRAST and COLOUR Controls to minimum, and BRIGHTNESS Control to the maximum.
11. Adjust the BLUE and GREEN DRIVE Controls (R252/R253) to obtain proper white-balanced picture in high light areas.
12. Set the BRIGHTNESS and CONTRAST Controls to obtain dark grey raster. Then check the white balance in low brightness. If the white balance is not proper, retouch the CUT OFF Controls and DRIVE Controls to obtain a good white balance in both low and high light areas.
13. Exit from the "SERVICE MODE" by turning the power ON/OFF with RMT H.H.U.

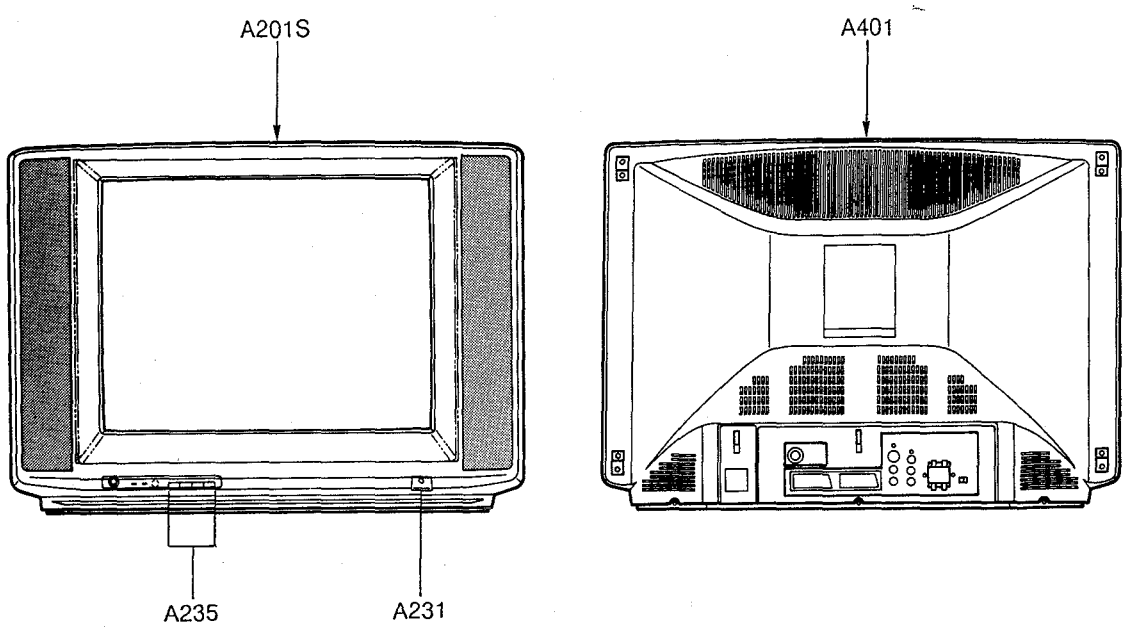
SUB-BRIGHTNESS ADJUSTMENT

1. Tune in a colour programme.
2. Set the "SERVICE MODE" by RMT H.H.U.
3. Set the CONTRAST Control to the maximum and BRIGHT Control to the center.
4. Set the COLOUR Control to the minimum.
5. Select the "SUB" symbol (F + ◪ (Item UP), F + ♪ (Item DN)) and adjust the level to the center by LEVEL key of RMT H.H.U. and leave the TV for five minutes in this state.
6. Watching the picture well, adjust the SUB-BRIGHT Control in the position (same method as in step No.5) where the picture does not show evidence of blooming in high bright area and not appear too dark in low bright portion.
7. Check the proper picture variation by rotating the CONTRAST and BRIGHTNESS Controls to both extremes.
8. If the picture does not appear dark with the CONTRAST and BRIGHTNESS Controls turned to minimum, or not appear bright with the controls turned to the maximum, adjust the SUB-BRIGHT Control again for the acceptable picture.
9. Exit from the "SERVICE MODE" by turning the power ON/OFF with the RMT H.H.U.

SERVICE ADJUSTMENT (BUS DATA CONTROL)

STEP	ADJUSTING PARTS	INPUT TERMINAL	OUTPUT TERMINAL	TEST SIGNAL	PROCEDURE (BUS DATA)
1	L151 38.9 MHz VCO COIL	IF input	Pin PF of P101	38.9 MHz CW 80~90 dBμV	1. Connect a resistor 1K ohm to pin 19 and +9V line. 2. Supply +12V to +12V line from ext. DC supply. 3. Send BUS DATA C0 00 FA. 4. Connect DVM to pin PF of P101. 5. Adjust L151 for 4.5V reading on the meter.
2	CN51 34.47 MHz VCO capacitor	IF input	Pin PF of P101	34.47 MHz CW 80~90 dBμV	1. Do the same as 1, 2 and 4 of above procedure 1. 2. Send BUS DATA C0 00 88. 3. Adjust CN51 for the 4.5V reading on the meter. 4. Adjust again L151.
3	RF AGC	IF input	AGC terminal of tuner	IF 38.9 MHz CW 95 dBμF	1. Remove the resistor 1K ohm between pin 19 and +9V line. 2. Unsolder solder link of IF to open. 3. Set the TV to B/G mode. 4. Set the TV to manufacture mode. 5. Connect DVM to terminal PJ (AGC). 6. Send BUS DATA by remote control so that voltage at terminal PJ can be 4V.
4	SECAM DET LEVEL	RF input	VIDEO output terminal PB of PIF Board	L-SECAM Modulation: 97% (at 94%) positive Input: 70 dBμV (F-6ch) (All white signal be included.)	1. Remove the resistor 1K ohm between pin 19 and +9V line. 2. Turn TV on. 3. Connect probe (10:1) of scope to VIDEO output terminal PB. 4. Send BUS DATA by remote control for the response of 2.0 Vp-p on scope.
5	L666 SIF DET	Pin PG of P101 (SIF IN)	Pin PH of P101 AUDIO output	6.0 MHz CW 15 KHz Dev (30% modulation) 100 dBμV	1. Supply +12V to +12V line. 2. Send BUS DATA C0 00 FA. 3. Connect DVM to pin PH of P101. 4. Connect pin 13 of IC101 to ground. 5. Adjust L666 for the maximum reading on the meter.

CABINET REPLACEMENT PARTS LIST



Location No.	Part No.	Description
A201S	23419622	Front Cover
A231	23443553	Button, Power
A235	23443552	Button, Up-Down
A401	23424156	Back Cover
A411	23568041	Label, Model No., B/C
A701	23524014	Carton Box
A702	23934005	Packing, Bottom
A703	23934899	Packing, Top
A710	23568043	Label, Model No., Carton

CHASSIS REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION" , "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

CAUTION: The international hazard symbols in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 2. Do not degrade the safety of the receiver through improper servicing.

NOTICE: The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.

ABBREVIATIONS:

Capacitors..... CD : Ceramic Disk PF : Plastic Film EL : Electrolytic
Resistors..... CF : Carbon Film CC : Carbon Composition MF : Metal Film
OMF : Oxide Metal Film VR : Variable Resistor FR : Fusible Resistor
(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Part No.	Description
CAPACITORS		
C101	24774220	Chip, 22pF
C102	24814103	Chip, 0.01μF, +80%, −20%
C103	24814103	Chip, 0.01μF, +80%, −20%
C104	24774080	Chip, 8pF, ±0.5pF
C106	24814103	Chip, 0.01μF, +80%, −20%
C107	24814103	Chip, 0.01μF, +80%, −20%
C108	24797470	EL, 47μF, ±20%, 50V
C109	24815102	Chip, 1000pF, ±10%
C110	24797100	EL, 10μF, ±20%, 50V
C111	24814103	Chip, 0.01μF, +80%, −20%
C113	24815102	Chip, 1000pF, ±10%
C114	24814103	Chip, 0.01μF, +80%, −20%
C115	24815102	Chip, 1000pF, ±10%
C116	24815102	Chip, 1000pF, ±10%
C117	24814103	Chip, 0.01μF, +80%, −20%
C120	24814103	Chip, 0.01μF, +80%, −20%
C123	24815102	Chip, 1000pF, ±10%
C124	24797010	EL, 1μF, ±20%, 50V
C125	24814103	Chip, 0.01μF, +80%, −20%
C126	24814103	Chip, 0.01μF, +80%, −20%
C127	24814103	Chip, 0.01μF, +80%, −20%
C128	24206478	EL, 0.47μF, 50V
C129	24538153	PF, 0.015μF
C130	24085988	EL, 1μF, ±20%, 50V, Non-Polar
C131	24814103	Chip, 0.01μF, +80%, −20%
C132	24814103	Chip, 0.01μF, +80%, −20%
C134	24815102	Chip, 1000pF, ±10%
C135	24815102	Chip, 1000pF, ±10%
C136	24814103	Chip, 0.01μF, +80%, −20%
C143	24797470	EL, 47μF, ±20%, 50V
C144	24794101	EL, 100μF, ±20%, 16V
C148	24794101	EL, 100μF, ±20%, 16V
C149	24794470	EL, 47μF, ±20%, 16V
C164	24285102	Chip, 1000pF, ±10%
C165	24774390	Chip, 39pF
C167	24814103	Chip, 0.01μF, +80%, −20%
C170	24814103	Chip, 0.01μF, +80%, −20%
C171	24814103	Chip, 0.01μF, +80%, −20%
C180	24814103	Chip, 0.01μF, +80%, −20%

Location No.	Part No.	Description
C181(U101)	24814103	Chip, 0.01μF, +80%, −20%
C181(U902)	24794471	EL, 470μF, ±20%, 16V
C182(U101)	24794471	EL, 470μF, ±20%, 16V
C182(U902)	24476103	CD, 0.01μF, ±30%, 16V
C183	24206010	EL, 1μF, 50V
C185	24476103	CD, 0.01μF, ±30%, 16V
C187	24794100	EL, 10μF, ±20%, 16V
C189	24797229	EL, 2.2μF, ±20%, 50V
C190	24232103	CD, 0.01μF, +80%,−20%
C191	24476103	CD, 0.01μF, ±30%, 16V
C201(U101)	24797100	EL, 10μF, ±20%, 50V
C201(U902)	24085981	EL, 10μF, ±20%, 16V
C202(U101)	24436270	CD, 27pF
C202(U902)	24795101	EL, 100μF, ±20%, 25V
C203	24476103	CD, 0.01μF, ±30%, 16V
C204	24206220	EL, 22μF, 50V
C205	24797478	EL, 0.47μF, ±20%, 50V
C208	24476103	CD, 0.01μF, ±30%, 16V
C209	24476103	CD, 0.01μF, ±30%, 16V
C210	24473220	CD, 22pF
C212	24232103	CD, 0.01μF, +80%,−20%
C213	24476103	CD, 0.01μF, ±30%, 16V
C220	24473300	CD, 30pF
C221	24794220	EL, 22μF, ±20%, 16V
C240	24797478	EL, 0.47μF, ±20%, 50V
C301	24797229	EL, 2.2μF, ±20%, 50V
C302	24212152	CD, 1500pF, ±10%
C314	24796102	EL, 1000μF, ±20%, 35V
C315	24214221	CD, 220pF, ±10%, 500V
C330	24590103	PF, 0.01μF
C331	24617915	EL, 1μF, ±10%, 50V
C332	24765221	EL, 220μF, ±20%, 35V
C333	24796101	EL, 100μF, ±20%, 35V
C334	24082057	PF, 0.22μF, 100V
C335	24795332	EL, 3300μF, 25V
C336	24617915	EL, 1μF, ±10%, 50V
C337	24474102	CD, 1000pF, ±10%
C338	24794470	EL, 47μF, ±20%, 16V
C339	24590104	PF, 0.1μF
C340	24435100	CD, 10pF, ±0.25pF, 500V
C402	24353241	CD, 240pF

Location No.	Part No.	Description
C403	24797339	EL, 3.3μF, ±20%, 50V
C405	24590203	PF, 0.02μF
C406	24590153	PF, 0.015μF
C407	24590243	PF, 0.024μF
C408	24797100	EL, 10μF, ±20%, 50V
C409	24232103	CD, 0.01μF, +80%,–20%
C410	24693272	PF, 2700pF, 100V
C414	24212221	CD, 220pF, ±10%
C416	24214271	CD, 270pF, ±10%, 500V
⚠C440	24095889	PF, 9100pF, ±3%, 1600V
C441	24214221	CD, 220pF, ±10%, 500V
C443	24214221	CD, 220pF, ±10%, 500V
C444	24092339	CD, 330pF, ±10%, 2kV
C445	24095903	PF, 0.056μF, ±10%, 250V
C447	24700479	EL, 4.7μF, ±20%, 250V
C448	24667102	EL, 1000μF, ±20%, 25V
C449	24666471	EL, 470μF, ±20%, 16V
C451	24640908	EL, 33μF, ±20%, 160V
⚠C463	24212222	CD, 2200pF, ±10%
C465	24095759	PF, 0.39μF, 200V
C501	24797220	EL, 22μF, ±20%, 50V
C504	24474181	CD, 180pF, ±10%
C505	24590273	PF, 0.027μF
C507	24590103	PF, 0.01μF
C508	24085944	EL, 2.2μF, ±20%, 50V, Non-Polar
C510	24476103	CD, 0.01μF, ±30%, 16V
C511	24476103	CD, 0.01μF, ±30%, 16V
C513	24232103	CD, 0.01μF, +80%,–20%
C514	24474181	CD, 180pF, ±10%
C515	24797220	EL, 22μF, ±20%, 50V
C516	24590104	PF, 0.1μF
C517	24590104	PF, 0.1μF
C518	24476103	CD, 0.01μF, ±30%, 16V
C519	24476103	CD, 0.01μF, ±30%, 16V
C520	24797478	EL, 0.47μF, ±20%, 50V
C521	24538474	PF, 0.47μF
C522	24538474	PF, 0.47μF
C523	24538474	PF, 0.47μF
C524	24476103	CD, 0.01μF, ±30%, 16V
C525	24436270	CD, 27pF
C526	24436270	CD, 27pF
C527	24436270	CD, 27pF
C528	24474102	CD, 1000pF, ±10%
C529	24473150	CD, 15pF
C530	24796220	EL, 22μF, ±20%, 35V
C531	24794100	EL, 10μF, ±20%, 16V
C532	24436101	CD, 100pF
C533	24436101	CD, 100pF
C534	24436101	CD, 100pF
C535	24797100	EL, 10μF, ±20%, 50V
C536	24797478	EL, 0.47μF, ±20%, 50V
C537	24794101	EL, 100μF, ±20%, 16V
C538	24353200	CD, 20pF
C539	24353330	CD, 33pF
C540	24436221	CD, 220pF
C541	24436221	CD, 220pF
C542	24436221	CD, 220pF
C543	24794220	EL, 22μF, ±20%, 16V
C602	24781470	Chip, 47pF
C603	24781470	Chip, 47pF
C612	24538104	PF, 0.1μF
C614	24814103	Chip, 0.01μF, +80%, –20%
C615	24814103	Chip, 0.01μF, +80%, –20%

Location No.	Part No.	Description
C618	24814103	Chip, 0.01μF, +80%, –20%
C619	24797470	EL, 47μF, ±20%, 50V
C620	24795102	EL, 1000μF, ±20%, 25V
C621(U101)	24781470	Chip, 47pF
C621(U902)	24795102	EL, 1000μF, ±20%, 25V
C622	24795101	EL, 100μF, ±20%, 25V
C623	24538184	PF, 0.18μF
C624	24590104	PF, 0.1μF
C625	24538184	PF, 0.18μF
C626	24815222	Chip, 2200pF, ±10%
C627	24206478	EL, 0.47μF, 50V
C630	24085939	EL, 4.7μF, ±20%, 25V, Non-Polar
C633	24590183	PF, 0.018μF
C635(U101)	24774050	Chip, 5pF, ±0.25pF
C635(U902)	24794101	EL, 100μF, ±20%, 16V
C636	24797010	EL, 1μF, ±20%, 50V
C638	24797010	EL, 1μF, ±20%, 50V
C639	24795101	EL, 100μF, ±20%, 25V
C640(U902)	24590183	PF, 0.018μF
C640(UG01)	24538473	PF, 0.047μF
C642	24794101	EL, 100μF, ±20%, 16V
C643	24590104	PF, 0.1μF
C644	24797471	EL, 470μF, ±20%, 50V
C645	24590104	PF, 0.1μF
C665	24814103	Chip, 0.01μF, +80%, –20%
C666	24774680	Chip, 68pF
C667	24781471	Chip, 470pF
C668	24276471	Chip, 470pF
C669	24814103	Chip, 0.01μF, +80%, –20%
C674	24794470	EL, 47μF, ±20%, 16V
C675	24287103	Chip, 0.01μF, +80%, –20%
⚠C801	24098999	PF, 0.1μF, ±20%, AC250V
⚠C802	24098999	PF, 0.1μF, ±20%, AC250V
C803	24092281	CD, 4700pF, ±20%, AC250V
C804	24092281	CD, 4700pF, ±20%, AC250V
C805	24092281	CD, 4700pF, ±20%, AC250V
C806	24092281	CD, 4700pF, ±20%, AC250V
C810	24086037	EL, 270μF, ±20%, 400V
C811	24436101	CD, 100pF
C812	24436561	CD, 560pF
C813	24590682	PF, 6800pF
C814	24630747	EL, 22μF, ±20%, 25V
C815	24212102	CD, 1000pF, ±10%
C816	24092339	CD, 330pF, ±10%, 2kV
C818	24095931	PF, 2200pF, 1600V
C820	24797101	EL, 100μF, ±20%, 50V
C821	24436331	CD, 330pF
C823	24092336	CD, 180pF, ±10%, 2kV
C824	24086953	EL, 220μF, ±20%, 160V
C825	24232103	CD, 0.01μF, +80%,–20%
C827	24795102	EL, 1000μF, ±20%, 25V
C829	24797100	EL, 10μF, ±20%, 50V
C830	24797010	EL, 1μF, ±20%, 50V
C831	24709479	EL, 4.7μF, ±20%, 200V
C833	24214331	CD, 330pF, ±10%, 500V
C834	24797222	EL, 2200μF, ±20%, 50V
C835	24436101	CD, 100pF
C837	24590103	PF, 0.01μF
C838	24797100	EL, 10μF, ±20%, 50V
C839	24538474	PF, 0.47μF
C840	24538474	PF, 0.47μF
C845	24666101	EL, 100μF, ±20%, 16V
C861	24762471	EL, 470μF, ±20%, 10V

Location No.	Part No.	Description
C881	24094656	CD, 2200pF, ±20%, AC400V
C882	24094656	CD, 2200pF, ±20%, AC400V
C885	24598102	PF, 1000pF
C886	24436101	CD, 100pF
C887	24794470	EL, 47μF, ±20%, 16V
C901	24700479	EL, 4.7μF, ±20%, 250V
C902	24095923	PF, 4700pF, 1600V
CA11	24797100	EL, 10μF, ±20%, 50V
CA12	24794102	EL, 1000μF, ±20%, 16V
CA13	24794100	EL, 10μF, ±20%, 16V
CA14	24232103	CD, 0.01μF, +80%,–20%
CA15	24476103	CD, 0.01μF, ±30%, 16V
CA16	24794100	EL, 10μF, ±20%, 16V
CA29	24232103	CD, 0.01μF, +80%,–20%
CA31	24436300	CD, 30pF
CA32	24436300	CD, 30pF
CA33	24474102	CD, 1000pF, ±10%
CA36	24590104	PF, 0.1μF
CA39	24474391	CD, 390pF, ±10%
CA40	24474221	CD, 220pF, ±10%
CA41	24590104	PF, 0.1μF
CA42	24590563	PF, 0.056μF
CA43	24590563	PF, 0.056μF
CA70	24797010	EL, 1μF, ±20%, 50V
CA71	24212102	CD, 1000pF, ±10%
CA72	24214472	CD, 4700pF, ±10%, 500V
CA75	24436561	CD, 560pF
CA76	24794330	EL, 33μF, ±20%, 16V
CA77	24232103	CD, 0.01μF, +80%,–20%
CA78	24797100	EL, 10μF, ±20%, 50V
CA98	24797229	EL, 2.2μF, ±20%, 50V
CA99	24590104	PF, 0.1μF
CB01	24212101	CD, 100pF, ±10%
CF01	24232103	CD, 0.01μF, +80%,–20%
CF02	24797100	EL, 10μF, ±20%, 50V
CF03	24476103	CD, 0.01μF, ±30%, 16V
CF04	24797100	EL, 10μF, ±20%, 50V
CF05	24353220	CD, 22pF
CF06	24353220	CD, 22pF
CF07	24232103	CD, 0.01μF, +80%,–20%
CF08	24590104	PF, 0.1μF
CF09	24085944	EL, 2.2μF, ±20%, 50V, Non-Polar
CF10	24206100	EL, 10μF, 50V
CF11	24476103	CD, 0.01μF, ±30%, 16V
CF15	24794470	EL, 47μF, ±20%, 16V
CF16	24353220	CD, 22pF
CF17	24797100	EL, 10μF, ±20%, 50V
CF18	24590103	PF, 0.01μF
CF19	24794101	EL, 100μF, ±20%, 16V
CF20	24436220	CD, 22pF
CF82	24795221	EL, 220μF, ±20%, 25V
CF84	24794470	EL, 47μF, ±20%, 16V
CG10	24814103	Chip, 0.01μF, +80%, –20%
CG14	24814103	Chip, 0.01μF, +80%, –20%
CG15	24538393	PF, 0.039μF
CG16	24538103	PF, 0.01μF
CG17	24538393	PF, 0.039μF
CG18	24538393	PF, 0.039μF
CG19	24794100	EL, 10μF, ±20%, 16V
CG20	24794100	EL, 10μF, ±20%, 16V
CG21	24797010	EL, 1μF, ±20%, 50V
CG22	24797010	EL, 1μF, ±20%, 50V
CG23	24794100	EL, 10μF, ±20%, 16V

Location No.	Part No.	Description
CG24	24794100	EL, 10μF, ±20%, 16V
CG25	24794100	EL, 10μF, ±20%, 16V
CG26	24794100	EL, 10μF, ±20%, 16V
CG27	24814103	Chip, 0.01μF, +80%, –20%
CG28	24794101	EL, 100μF, ±20%, 16V
CG29	24794101	EL, 100μF, ±20%, 16V
CG30	24287103	Chip, 0.01μF, +80%, –20%
CG31	24794100	EL, 10μF, ±20%, 16V
CG32	24794100	EL, 10μF, ±20%, 16V
CG33	24794100	EL, 10μF, ±20%, 16V
CG34	24590562	PF, 5600pF
CG35	24794100	EL, 10μF, ±20%, 16V
CG36	24797339	EL, 3.3μF, ±20%, 50V
CG60	24794221	EL, 220μF, ±20%, 16V
CM01	24436221	CD, 220pF
CM02	24436221	CD, 220pF
CM03	24340080	CD, 8pF, ±0.25pF
CM04	24340080	CD, 8pF, ±0.25pF
CM05	24476103	CD, 0.01μF, ±30%, 16V
CM06	24357270	CD, 27pF
CM07	24590563	PF, 0.056μF
CM08	24476103	CD, 0.01μF, ±30%, 16V
CM09	24357200	CD, 20pF
CM10	24473270	CD, 27pF
CM12	24476103	CD, 0.01μF, ±30%, 16V
CM14	24357200	CD, 20pF
CN06	24474820	CD, 82pF, ±10%
CN09	24353150	CD, 15pF
CN10	24474101	CD, 100pF, ±10%
CN12	24353300	CD, 30pF
CN16	24590273	PF, 0.027μF
CN28	24473689	CD, 6.8pF, ±10%
CN29	24797010	EL, 1μF, ±20%, 50V
CN30(U101)	24814103	Chip, 0.01μF, +80%, –20%
CN30(U902)	24476103	CD, 0.01μF, ±30%, 16V
CN31	24774101	Chip, 100pF
CN32	24094959	Variable Capacitor, 2 to 12pF, 50V
CN33	24774150	Chip, 15pF
CN34	24776151	Chip, 150pF
CN36	24814103	Chip, 0.01μF, +80%, –20%
CN37	24814103	Chip, 0.01μF, +80%, –20%
CN42	24814103	Chip, 0.01μF, +80%, –20%
CN43	24814103	Chip, 0.01μF, +80%, –20%
CN44	24776120	Chip, 12pF
CN51	24094959	Variable Capacitor, 2 to 12pF, 50V
CV01	24476103	CD, 0.01μF, ±30%, 16V
CV02	24203100	EL, 10μF, ±20%, 16V
CV03	24794100	EL, 10μF, ±20%, 16V
CV04	24203100	EL, 10μF, ±20%, 16V
CV05	24476103	CD, 0.01μF, ±30%, 16V
CV06	24794100	EL, 10μF, ±20%, 16V
CV07	24797100	EL, 10μF, ±20%, 50V
CV08	24794100	EL, 10μF, ±20%, 16V
CV09	24476103	CD, 0.01μF, ±30%, 16V
CV10	24794100	EL, 10μF, ±20%, 16V
CV11	24794100	EL, 10μF, ±20%, 16V
CV12	24794100	EL, 10μF, ±20%, 16V
CV13	24794100	EL, 10μF, ±20%, 16V
CV14	24794100	EL, 10μF, ±20%, 16V
CV15	24794100	EL, 10μF, ±20%, 16V
CV23	24793471	EL, 470μF, ±20%, 10V
CV24	24797100	EL, 10μF, ±20%, 50V

Location No.	Part No.	Description
CV26	24793471	EL, 470μF, ±20%, 10V
CV27	24206339	EL, 3.3μF, 50V
CV29	24590104	PF, 0.1μF
CV36	24797100	EL, 10μF, ±20%, 50V
CV47	24794101	EL, 100μF, ±20%, 16V
CV70	24794101	EL, 100μF, ±20%, 16V
CV71	24232103	CD, 0.01μF, +80%,–20%
CV72	24203100	EL, 10μF, ±20%, 16V
CV73	24474820	CD, 82pF, ±10%
CV82	24794100	EL, 10μF, ±20%, 16V
CV83	24794100	EL, 10μF, ±20%, 16V
CV85	24203100	EL, 10μF, ±20%, 16V
CV86	24203100	EL, 10μF, ±20%, 16V
CV95	24793471	EL, 470μF, ±20%, 10V
CV96	24797010	EL, 1μF, ±20%, 50V
CV97	24797010	EL, 1μF, ±20%, 50V
CV98	24590562	PF, 5600pF
CV99	24590562	PF, 5600pF
CW30	24797100	EL, 10μF, ±20%, 50V
CW31	24797100	EL, 10μF, ±20%, 50V
CX02	24538474	PF, 0.47μF
CX03	24538474	PF, 0.47μF
CX04	24538474	PF, 0.47μF
CY51	24797010	EL, 1μF, ±20%, 50V
CY52	24797010	EL, 1μF, ±20%, 50V
CY53	24797010	EL, 1μF, ±20%, 50V
CY54	24797010	EL, 1μF, ±20%, 50V
CY55	24797010	EL, 1μF, ±20%, 50V
CY56	24797010	EL, 1μF, ±20%, 50V
CY57	24206010	EL, 1μF, 50V
CY58	24206010	EL, 1μF, 50V
CY59	24206010	EL, 1μF, 50V
CY60	24797010	EL, 1μF, ±20%, 50V
CY61	24797010	EL, 1μF, ±20%, 50V
CY62	24797010	EL, 1μF, ±20%, 50V
CY63	24793221	EL, 220μF, ±20%, 10V
CY64	24590104	PF, 0.1μF
RESISTORS		
R101	24872222	Chip, 2200 ohm, 1/16W
R102	24871472	Chip, 4700 ohm, 1/8W
R103	24871152	Chip, 1500 ohm, 1/8W
R106	24872222	Chip, 2200 ohm, 1/16W
R110	24872105	Chip, 1M ohm, 1/16W
R111	24872201	Chip, 200 ohm, 1/16W
R112	24872471	Chip, 470 ohm, 1/16W
R113	24872331	Chip, 330 ohm, 1/16W
R114	24872101	Chip, 100 ohm, 1/16W
R115	24872102	Chip, 1k ohm, 1/16W
R117	24872684	Chip, 680k ohm, 1/16W
R120	24872124	Chip, 120k ohm, 1/16W
R121	24871153	Chip, 15k ohm, 1/18W
R122	24872682	Chip, 6800 ohm, 1/16W
R123	24872103	Chip, 10k ohm, 1/16W
R126	24872222	Chip, 2200 ohm, 1/16W
R127	24872360	Chip, 36 ohm, 1/16W
R128	24552101	OMF, 100 ohm, 1/2W
R130	24872684	Chip, 680k ohm, 1/16W
R132	24872181	Chip, 180 ohm, 1/16W
R133	24872332	Chip, 3300 ohm, 1/16W
R134	24872562	Chip, 5600 ohm, 1/16W
R135	24872753	Chip, 75k ohm, 1/16W
R136	24872682	Chip, 6800 ohm, 1/16W
R137	24872104	Chip, 100k ohm, 1/16W

Location No.	Part No.	Description
R138	24871102	Chip, 1k ohm, 1/8W
R143	24872393	Chip, 39k ohm, 1/16W
R144	24872394	Chip, 390k ohm, 1/16W
R149	24872513	Chip, 51k ohm, 1/16W
R154	24066870	VR, 1M ohm, 0.3W
R155	24872131	Chip, 130 ohm, 1/16W
R156	24552101	OMF, 100 ohm, 1/2W
R157	24871331	Chip, 330 ohm, 1/18W
R158	24872180	Chip, 18 ohm, 1/16W
R159	24872682	Chip, 6800 ohm, 1/16W
R160	24872122	Chip, 1200 ohm, 1/16W
R161	24872360	Chip, 36 ohm, 1/16W
R164	24872122	Chip, 1200 ohm, 1/16W
R165	24872682	Chip, 6800 ohm, 1/16W
R166	24872681	Chip, 680 ohm, 1/16W
R167	24872122	Chip, 1200 ohm, 1/16W
R170	24871104	Chip, 100k ohm, 1/8W
R171	24872102	Chip, 1k ohm, 1/16W
R172	24872104	Chip, 100k ohm, 1/16W
R181(U101)	24871331	Chip, 330 ohm, 1/18W
R181(U902)	24366105	CF, 1M ohm
R182(U101)	24872390	Chip, 39 ohm, 1/16W
R182(U902)	24366473	CF, 47k ohm
R183(U101)	24872181	Chip, 180 ohm, 1/16W
R183(U902)	24366103	CF, 10k ohm
R184(U101)	24872332	Chip, 3300 ohm, 1/16W
R184(U902)	24366473	CF, 47k ohm
R185	24872562	Chip, 5600 ohm, 1/16W
R187	24872132	Chip, 1300 ohm, 1/16W
R188	24872392	Chip, 3900 ohm, 1/16W
R189	24000576	Chip Jumper, 3216 type
R190	24872473	Chip, 47k ohm, 1/16W
R191	24872101	Chip, 100 ohm, 1/16W
R192	24872101	Chip, 100 ohm, 1/16W
R201(U101)	24872331	Chip, 330 ohm, 1/16W
R201(U902)	24366122	CF, 1200 ohm
R202	24366471	CF, 470 ohm
R203	24366472	CF, 4700 ohm
R204	24366132	CF, 1300 ohm
R205	24366182	CF, 1800 ohm
R211	24366102	CF, 1k ohm
R212	24366103	CF, 10k ohm
R213	24366152	CF, 1500 ohm
R214	24366122	CF, 1200 ohm
R219	24366472	CF, 4700 ohm
R220	24366223	CF, 22k ohm
R221	24366223	CF, 22k ohm
R222	24366301	CF, 300 ohm
R232	24366103	CF, 10k ohm
R233	24366103	CF, 10k ohm
R242	24366203	CF, 20k ohm
R243	24366183	CF, 18k ohm
R252	24066597	VR, 1k ohm, 1/10W
R253	24066597	VR, 1k ohm, 1/10W
R301	24366301	CF, 300 ohm
R302	24366244	CF, 240k ohm
R305	24366161	CF, 160 ohm
R317	24366102	CF, 1k ohm
R326	24382470	OMF, 47 ohm, 1W
⚠R327	24532130	FR, 13 ohm, 1W
R329	24366162	CF, 1600 ohm
R330	24366472	CF, 4700 ohm
R331	24366103	CF, 10k ohm
R332	24366683	CF, 68k ohm

Location No.	Part No.	Description
R333	24366563	CF, 56k ohm
R334	24366103	CF, 10k ohm
R335	24366102	CF, 1k ohm
R336	24383271	OMF, 270 ohm, 2W
R337	24552202	OMF, 2k ohm, 1/2W
R338	24552122	OMF, 1200 ohm, 1/2W
R339	24322139	OMF, 1.3 ohm, 1W
R340	24366303	CF, 30k ohm
R341	24366183	CF, 18k ohm
R342	24366203	CF, 20k ohm
R343	24366473	CF, 47k ohm
R344	24366103	CF, 10k ohm
R345	24366125	CF, 1.2M ohm
R346	24366753	CF, 75k ohm
R347	24366684	CF, 680k ohm
R349	24366473	CF, 47k ohm
R351	24066602	VR, 50k ohm, 1/10W
R402	24366273	CF, 27k ohm
R403	24366302	CF, 3k ohm
R404	24552432	OMF, 4300 ohm, 1/2W
R405	24366431	CF, 430 ohm
R408	24366682	CF, 6800 ohm
R409	24366434	CF, 430k ohm
R410	24552472	OMF, 4700 ohm, 1/2W
R411	24366391	CF, 390 ohm
R412	24366121	CF, 120 ohm
R416	24007566	Cement, 2k ohm, 5W
R419	24942510	CC, 51 ohm, 1/2W
R420	24553102	OMF, 1k ohm, 1W
R421	24366105	CF, 1M ohm
R440	24552103	OMF, 10k ohm, 1/2W
R441	24552103	OMF, 10k ohm, 1/2W
⚠R444	24007768	Cement, 15 ohm, 10W
R445	24383561	OMF, 560 ohm, 2W
⚠R448	24322159	OMF, 1.5 ohm, 1W
R502	24366334	CF, 330k ohm
R504	24366391	CF, 390 ohm
R505	24366822	CF, 8200 ohm
R507	24366822	CF, 8200 ohm
R508	24366561	CF, 560 ohm
R509	24366122	CF, 1200 ohm
R510	24366332	CF, 3300 ohm
R511	24366202	CF, 2k ohm
R512	24366182	CF, 1800 ohm
R513	24366122	CF, 1200 ohm
R514	24366223	CF, 22k ohm
R515	24366221	CF, 220 ohm
R516	24366221	CF, 220 ohm
R517	24366221	CF, 220 ohm
R518	24366223	CF, 22k ohm
R519	24366475	CF, 4.7M ohm
R520	24366332	CF, 3300 ohm
R521	24366102	CF, 1k ohm
R522	24366185	CF, 1.8M ohm
R525	24366133	CF, 13k ohm
R527	24366821	CF, 820 ohm
R528	24366561	CF, 560 ohm
R529	24366101	CF, 100 ohm
R530	24366101	CF, 100 ohm
R532	24366102	CF, 1k ohm
R533	24366162	CF, 1600 ohm
R535	24366301	CF, 300 ohm
R537	24366162	CF, 1600 ohm
R538	24366331	CF, 330 ohm

Location No.	Part No.	Description
R539	24366162	CF, 1600 ohm
R541	24366821	CF, 820 ohm
R542	24366201	CF, 200 ohm
R543	24366103	CF, 10k ohm
R544	24366101	CF, 100 ohm
R545	24366102	CF, 1k ohm
R546	24366333	CF, 33k ohm
R547	24366102	CF, 1k ohm
R548	24366102	CF, 1k ohm
R549	24366102	CF, 1k ohm
R551	24066955	VR, 1k ohm, 1/10W
R557	24066600	VR, 10k ohm, 1/10W
R558	24066600	VR, 10k ohm, 1/10W
R559	24066600	VR, 10k ohm, 1/10W
R565	24366560	CF, 56 ohm
R566	24366560	CF, 56 ohm
R567	24366560	CF, 56 ohm
R568	24366102	CF, 1k ohm
R570	24366272	CF, 2700 ohm
R571	24366272	CF, 2700 ohm
R572	24366272	CF, 2700 ohm
R580	24366391	CF, 390 ohm
R581	24366331	CF, 330 ohm
R591	24383153	OMF, 15k ohm, 2W
R592	24383153	OMF, 15k ohm, 2W
R593	24383153	OMF, 15k ohm, 2W
R602	24871331	Chip, 330 ohm, 1/18W
R604	24872563	Chip, 56k ohm, 1/16W
R605	24872563	Chip, 56k ohm, 1/16W
R606	24872102	Chip, 1k ohm, 1/16W
R609	24871681	Chip, 680 ohm, 1/8W
R611	24872102	Chip, 1k ohm, 1/16W
R613	24872430	Chip, 43 ohm, 1/16W
R615	24872183	Chip, 18k ohm, 1/16W
R616	24872242	Chip, 2400 ohm, 1/16W
R617	24872271	Chip, 270 ohm, 1/16W
R618	24872271	Chip, 270 ohm, 1/16W
R621	24872220	Chip, 22 ohm, 1/16W
R622	24872112	Chip, 1100 ohm, 1/16W
R623	24872471	Chip, 470 ohm, 1/16W
R625	24872102	Chip, 1k ohm, 1/16W
R626	24872101	Chip, 100 ohm, 1/16W
R627	24872202	Chip, 2k ohm, 1/16W
R628	24872821	Chip, 820 ohm, 1/16W
R630(U101)	24872331	Chip, 330 ohm, 1/16W
R630(U902)	24366332	CF, 3300 ohm
R631(U101)	24872154	Chip, 150k ohm, 1/16W
R631(U902)	24366332	CF, 3300 ohm
R635	24872392	Chip, 3900 ohm, 1/16W
R638	24366682	CF, 6800 ohm
R640(U101)	24872103	Chip, 10k ohm, 1/16W
R640(U902)	24366152	CF, 1500 ohm
R641(U101)	24872473	Chip, 47k ohm, 1/16W
R641(U902)	24366682	CF, 6800 ohm
R642	24872103	Chip, 10k ohm, 1/16W
R643	24366152	CF, 1500 ohm
R644	24321229	OMF, 2.2 ohm, 1/2W
R645	24321229	OMF, 2.2 ohm, 1/2W
R646	24366223	CF, 22k ohm
R647	24366223	CF, 22k ohm
R650	24366101	CF, 100 ohm
R665	24552181	OMF, 180 ohm, 1/2W
R666	24552181	OMF, 180 ohm, 1/2W
R668	24366362	CF, 3600 ohm

Location No.	Part No.	Description
R669	24366272	CF, 2700 ohm
R670	24366223	CF, 22k ohm
R681	24872223	Chip, 22k ohm, 1/16W
R682	24872105	Chip, 1M ohm, 1/16W
R683	24871102	Chip, 1k ohm, 1/8W
R686	24552431	OMF, 430 ohm, 1/2W
R801	24004914	CC, 5.6M ohm, 1/2W
⚠R802	24007857	Cement, 6.2 ohm, 15W
R810	24377274	CF, 270k ohm, 1W
R811	24366103	CF, 10k ohm
R812	24366102	CF, 1k ohm
R813	24366102	CF, 1k ohm
R814	24366823	CF, 82k ohm
R815	24366221	CF, 220 ohm
R816	24367471	CF, 470 ohm, ±2%
R817	24321398	OMF, 0.39 ohm, 1/2W
R818	24384153	OMF, 15k ohm, 3W
R819	24366689	CF, 6.8 ohm
R820	24552102	OMF, 1k ohm, 1/2W
R821	24007743	Cement, 180 ohm, 10W
R822	24366390	CF, 39 ohm
R824	24366123	CF, 12k ohm
R825	24381220	OMF, 22 ohm, 1/2W
R826	24366102	CF, 1k ohm
R827	24366102	CF, 1k ohm
R830	24383203	OMF, 20k ohm, 2W
R831	24384822	OMF, 8200 ohm, 3W
R836	24321228	OMF, 0.22 ohm, 1/2W
R838	24383102	OMF, 1k ohm, 2W
R839	24366103	CF, 10k ohm
R840	24366105	CF, 1M ohm
R841	24366103	CF, 10k ohm
R842	24000900	FR, 0.47 ohm, ±10%, 1W
R843	24366103	CF, 10k ohm
R844	24366105	CF, 1M ohm
R845	24366392	CF, 3900 ohm
R846	24366562	CF, 5600 ohm
R847	24553473	OMF, 47k ohm, 1W
R849	24366272	CF, 2700 ohm
R861	24007642	Cement, 5600 ohm, 5W
R862	24383103	OMF, 10k ohm, 2W
R863	24366103	CF, 10k ohm
R871	24366103	CF, 10k ohm
R872	24366103	CF, 10k ohm
R873	24366103	CF, 10k ohm
R874	24366103	CF, 10k ohm
R875	24366562	CF, 5600 ohm
R877	24366102	CF, 1k ohm
R878	24366103	CF, 10k ohm
R880	24366682	CF, 6800 ohm
R882	24366513	CF, 51k ohm
R883	24366103	CF, 10k ohm
R884	24366103	CF, 10k ohm
R885	24366103	CF, 10k ohm
R886	24366103	CF, 10k ohm
⚠R890	24000630	PTC Thermistor, Dual
R901	24946272	CC, 2700 ohm, ±10%, 1/2W
R902	24946272	CC, 2700 ohm, ±10%, 1/2W
R903	24946272	CC, 2700 ohm, ±10%, 1/2W
R920	24000888	FR, 2 ohm, 1W
RA01	24366183	CF, 18k ohm
RA02	24366562	CF, 5600 ohm
RA03	24366103	CF, 10k ohm
RA04	24366101	CF, 100 ohm

Location No.	Part No.	Description
RA05	24366473	CF, 47k ohm
RA06	24366473	CF, 47k ohm
RA07	24366222	CF, 2200 ohm
RA08	24366101	CF, 100 ohm
RA09	24366392	CF, 3900 ohm
RA10	24366184	CF, 180k ohm
RA11	24366103	CF, 10k ohm
RA12	24366103	CF, 10k ohm
RA13	24366473	CF, 47k ohm
RA14	24366473	CF, 47k ohm
RA15	24366103	CF, 10k ohm
RA16	24366103	CF, 10k ohm
RA17	24366103	CF, 10k ohm
RA18	24366103	CF, 10k ohm
RA19	24366102	CF, 1k ohm
RA20	24366103	CF, 10k ohm
RA21	24366561	CF, 560 ohm
RA22	24366561	CF, 560 ohm
RA23	24366103	CF, 10k ohm
RA24	24366225	CF, 2.2M ohm
RA25	24366153	CF, 15k ohm
RA26	24946226	CC, 22M ohm, ±10%, 1/2W
RA27	24366333	CF, 33k ohm
RA28	24366333	CF, 33k ohm
RA29	24366103	CF, 10k ohm
RA30	24366473	CF, 47k ohm
RA31	24366473	CF, 47k ohm
RA32	24366473	CF, 47k ohm
RA33	24366473	CF, 47k ohm
RA34	24366333	CF, 33k ohm
RA35	24366223	CF, 22k ohm
RA36	24366102	CF, 1k ohm
RA37	24366473	CF, 47k ohm
RA39	24366472	CF, 4700 ohm
RA40	24366472	CF, 4700 ohm
RA43	24366103	CF, 10k ohm
RA44	24366103	CF, 10k ohm
RA45	24366183	CF, 18k ohm
RA46	24366123	CF, 12k ohm
RA47	24366152	CF, 1500 ohm
RA48	24366473	CF, 47k ohm
RA56	24366123	CF, 12k ohm
RA57	24366392	CF, 3900 ohm
RA58	24366152	CF, 1500 ohm
RA59	24366392	CF, 3900 ohm
RA60	24366392	CF, 3900 ohm
RA61	24366102	CF, 1k ohm
RA62	24366103	CF, 10k ohm
RA63	24366103	CF, 10k ohm
RA66	24366102	CF, 1k ohm
RA67	24366153	CF, 15k ohm
RA70	24366561	CF, 560 ohm
RA71	24366564	CF, 560k ohm
RA72	24366563	CF, 56k ohm
RA73	24366123	CF, 12k ohm
RA74	24366392	CF, 3900 ohm
RA75	24366103	CF, 10k ohm
RA76	24366473	CF, 47k ohm
RA79	24366153	CF, 15k ohm
RA81	24366101	CF, 100 ohm
RA82	24366101	CF, 100 ohm
RA83	24366103	CF, 10k ohm
RA84	24366103	CF, 10k ohm
RA85	24366103	CF, 10k ohm

Location No.	Part No.	Description
RA86	24366103	CF, 10k ohm
RA87	24366103	CF, 10k ohm
RA89	24366471	CF, 470 ohm
RA90	24366391	CF, 390 ohm
RA91	24366223	CF, 22k ohm
RA92	24366473	CF, 47k ohm
RA93	24366391	CF, 390 ohm
RA95	24366473	CF, 47k ohm
RA96	24366102	CF, 1k ohm
RA97	24366101	CF, 100 ohm
RA98	24366101	CF, 100 ohm
RA99	24890183	CF, 18k ohm, 1/4W
RB01	24366103	CF, 10k ohm
RB02	24366332	CF, 3300 ohm
RB03	24366103	CF, 10k ohm
RB04	24366103	CF, 10k ohm
RB05	24366222	CF, 2200 ohm
RB06	24366473	CF, 47k ohm
RF03	24366100	CF, 10 ohm
RF04	24366273	CF, 27k ohm
RF05	24366472	CF, 4700 ohm
RF06	24366103	CF, 10k ohm
RF07	24366103	CF, 10k ohm
RF08	24366101	CF, 100 ohm
RF09	24366101	CF, 100 ohm
RF11	24366272	CF, 2700 ohm
RF12	24366103	CF, 10k ohm
RF13	24366101	CF, 100 ohm
RF14	24366101	CF, 100 ohm
RF15	24366392	CF, 3900 ohm
RF16	24366682	CF, 6800 ohm
RF17	24366332	CF, 3300 ohm
RF18	24366682	CF, 6800 ohm
RF19	24366101	CF, 100 ohm
RF80	24546279	FR, 2.7 ohm, 1/2W
RF81	24383123	OMF, 12k ohm, 2W
RG06	24872102	Chip, 1k ohm, 1/16W
RG07	24872102	Chip, 1k ohm, 1/16W
RG12	24872472	Chip, 4700 ohm, 1/16W
RG13	24871472	Chip, 4700 ohm, 1/8W
RG14	24871472	Chip, 4700 ohm, 1/8W
RG15	24871472	Chip, 4700 ohm, 1/8W
RG16	24872472	Chip, 4700 ohm, 1/16W
RG17	24871223	Chip, 22k ohm, 1/8W
RG18	24871223	Chip, 22k ohm, 1/8W
RG20	24872223	Chip, 22k ohm, 1/16W
RG21	24872223	Chip, 22k ohm, 1/16W
RG22	24872473	Chip, 47k ohm, 1/16W
RG23	24872223	Chip, 22k ohm, 1/16W
RG25	24872394	Chip, 390k ohm, 1/16W
RG26	24553680	OMF, 68 ohm, 1W
RG27	24872101	Chip, 100 ohm, 1/16W
RG28	24872101	Chip, 100 ohm, 1/16W
RG29	24872101	Chip, 100 ohm, 1/16W
RG30	24872101	Chip, 100 ohm, 1/16W
RG33	24872229	Chip, 2.2 ohm, 1/16W
RG34	24872229	Chip, 2.2 ohm, 1/16W
RG38	24872101	Chip, 100 ohm, 1/16W
RG60	24553101	OMF, 100 ohm, 1W
RG61	24872152	Chip, 1500 ohm, 1/16W
RG62	24872102	Chip, 1k ohm, 1/16W
RG63	24872222	Chip, 2200 ohm, 1/16W
RJ01	24000576	Chip Jumper, 3216 type
RJ02	24000576	Chip Jumper, 3216 type

Location No.	Part No.	Description
RJ03	24000824	Chip Jumper, 2125 type
RJ04	24000824	Chip Jumper, 2125 type
RM03	24366272	CF, 2700 ohm
RM04	24366432	CF, 4300 ohm
RM05	24366221	CF, 220 ohm
RM06	24366271	CF, 270 ohm
RM07	24366475	CF, 4.7M ohm
RM08	24366333	CF, 33k ohm
RN06	24366473	CF, 47k ohm
RN07	24366223	CF, 22k ohm
RN08	24366185	CF, 1.8M ohm
RN09	24366103	CF, 10k ohm
RN18	24366473	CF, 47k ohm
RN19	24366103	CF, 10k ohm
RN23	24366473	CF, 47k ohm
RN26	24366133	CF, 13k ohm
RN28	24366202	CF, 2k ohm
RN29	24366272	CF, 2700 ohm
RN32	24366243	CF, 24k ohm
RN45	24872680	Chip, 68 ohm, 1/16W
RN46	24872471	Chip, 470 ohm, 1/16W
RN47	24872681	Chip, 680 ohm, 1/16W
RN48	24872122	Chip, 1200 ohm, 1/16W
RN54	24872472	Chip, 4700 ohm, 1/16W
RN55	24872472	Chip, 4700 ohm, 1/16W
RN56	24872331	Chip, 330 ohm, 1/16W
RN67	24872680	Chip, 68 ohm, 1/16W
RV02	24366101	CF, 100 ohm
RV03	24366101	CF, 100 ohm
RV04	24366101	CF, 100 ohm
RV05	24366101	CF, 100 ohm
RV06	24366101	CF, 100 ohm
RV07	24366101	CF, 100 ohm
RV08	24366101	CF, 100 ohm
RV09	24366101	CF, 100 ohm
RV10	24366101	CF, 100 ohm
RV11	24366101	CF, 100 ohm
RV12	24366101	CF, 100 ohm
RV13	24366101	CF, 100 ohm
RV14	24366101	CF, 100 ohm
RV15	24366101	CF, 100 ohm
RV16	24366104	CF, 100k ohm
RV17	24366104	CF, 100k ohm
RV18	24366104	CF, 100k ohm
RV19	24366104	CF, 100k ohm
RV20	24366104	CF, 100k ohm
RV21	24366104	CF, 100k ohm
RV22	24366104	CF, 100k ohm
RV23	24366104	CF, 100k ohm
RV24	24366471	CF, 470 ohm
RV25	24366101	CF, 100 ohm
RV26	24366680	CF, 68 ohm
RV27	24366102	CF, 1k ohm
RV28	24366102	CF, 1k ohm
RV29	24366820	CF, 82 ohm
RV31	24366910	CF, 91 ohm
RV32	24366910	CF, 91 ohm
RV34	24366102	CF, 1k ohm
RV39	24366910	CF, 91 ohm
RV40	24366680	CF, 68 ohm
RV41	24366103	CF, 10k ohm
RV42	24366750	CF, 75 ohm
RV43	24366680	CF, 68 ohm
RV44	24366680	CF, 68 ohm

Location No.	Part No.	Description
RV45	24366680	CF, 68 ohm
RV56	24552161	OMF, 160 ohm, 1/2W
RV60	24552101	OMF, 100 ohm, 1/2W
RV69	24366102	CF, 1k ohm
RV70	24366471	CF, 470 ohm
RV73	24366910	CF, 91 ohm
RV74	24366103	CF, 10k ohm
RV75	24366561	CF, 560 ohm
RV76	24366471	CF, 470 ohm
RV77	24366101	CF, 100 ohm
RV78	24366101	CF, 100 ohm
RV79	24552391	OMF, 390 ohm, 1/2W
RV80	24366102	CF, 1k ohm
RV81	24366101	CF, 100 ohm
RV82	24366621	CF, 620 ohm
RV83	24366621	CF, 620 ohm
RV84	24366621	CF, 620 ohm
RV85	24366621	CF, 620 ohm
RV86	24366471	CF, 470 ohm
RV87	24366101	CF, 100 ohm
RV88	24366101	CF, 100 ohm
RW04	24366101	CF, 100 ohm
RW07	24366101	CF, 100 ohm
RW15	24366104	CF, 100k ohm
RW16	24366104	CF, 100k ohm
RW21	24366471	CF, 470 ohm
RW22	24366471	CF, 470 ohm
RW24	24366471	CF, 470 ohm
RW25	24366471	CF, 470 ohm
RW26	24366104	CF, 100k ohm
RW28	24366472	CF, 4700 ohm
RW29	24366104	CF, 100k ohm
RW30	24366102	CF, 1k ohm
RW31	24366223	CF, 22k ohm
RW32	24366223	CF, 22k ohm
RW33	24366102	CF, 1k ohm
RW40	24366103	CF, 10k ohm
RW80	24366101	CF, 100 ohm
RW81	24366101	CF, 100 ohm
RW83	24552161	OMF, 160 ohm, 1/2W
RY01	24366473	CF, 47k ohm
RY02	24366183	CF, 18k ohm
RY03	24366391	CF, 390 ohm
RY04	24366473	CF, 47k ohm
RY51	24366101	CF, 100 ohm
RY52	24366101	CF, 100 ohm
RY53	24366101	CF, 100 ohm
RY54	24366101	CF, 100 ohm
RY55	24366181	CF, 180 ohm
RY56	24366181	CF, 180 ohm
RY57	24366181	CF, 180 ohm
RY61	24366152	CF, 1500 ohm
RY62	24366511	CF, 510 ohm
RY63	24366101	CF, 100 ohm
RY64	24366101	CF, 100 ohm
RY65	24366101	CF, 100 ohm
RY66	24366122	CF, 1200 ohm
RY67	24366122	CF, 1200 ohm
RY68	24366122	CF, 1200 ohm

COILS & TRANSFORMERS

L103	23261986	Coil, RF Choke, TRF9220
L105	23238558	Coil, Peaking, TRF4R47AJ
L108	23238562	Coil, Peaking, TRF4109AJ
L109	23238715	Coil, Peaking, TRF4829AJ
L110	23262719	Coil, IF, TRF1132D
L111	23238714	Coil, Peaking, TRF4100AJ
L112	23262828	Coil, PIF, TRF1065
L113	23262815	Coil, SIF, TRF1075
L140	23238714	Coil, Peaking, TRF4100AJ
L151	23262668	Coil, IF, TRF1162T
L160	23201004	Coil, RF Choke, TRF9202B
L201	23238711	Coil, Peaking, TRF4180AJ
L203	23238914	Coil, Peaking, TRF4470AC
L208	23238704	Coil, Peaking, TRF4680AJ
L220	23238706	Coil, Peaking, TRF4470AJ
L230	23238562	Coil, Peaking, TRF4109AJ
L315	23238714	Coil, Peaking, TRF4100AJ
L330	23238714	Coil, Peaking, TRF4100AJ
L331	23103901	Coil (Ferrite Bead), TEM2017
L405	23221685	Coil, Choke, TLN3193
L406	23103859	Coil (Ferrite Bead), TEM2011
L411	23222657	Coil, Linearity, TLN2072
⚠L462	----------	DY, Supplied with V901
L503	23238714	Coil, Peaking, TRF4100AJ
L525	23238708	Coil, Peaking, TRF4330AJ
L551	23250972	Coil, 1H-Delay Matching, TRF5418D
L590	23289221	Coil, Peaking, TRF4221AF
L591	23238714	Coil, Peaking, TRF4100AJ
L601	23238714	Coil, Peaking, TRF4100AJ
L604	23238713	Coil, Peaking, TRF4120AJ
L662	23232946	Coil, Variable, TRF3073D
L666	23257001	Coil, Variable, TRF6024D
L801	23221077	Coil, Choke, TLN1015S
L802	23103859	Coil (Ferrite Bead), TEM2011
L803	23221747	Coil, Choke, TRF9253D
L804	23221747	Coil, Choke, TRF9253D
L806	23103859	Coil (Ferrite Bead), TEM2011
L829	23238714	Coil, Peaking, TRF4100AJ
L830	23222694	Coil, Width, TLN2026
L833	23222694	Coil, Width, TLN2026
L834	23103859	Coil (Ferrite Bead), TEM2011
⚠L901	23200205	Coil, Degaussing, TSB-2333AR
LA01	23238562	Coil, Peaking, TRF4109AJ
LA12	23221803	Coil, Choke, TLN3040D
LB01	23262001	Coil, IF, TRF1166D
LF01	23238712	Coil, Peaking, TRF4150AJ
LF02	23238712	Coil, Peaking, TRF4150AJ
LF03	23238720	Coil, Peaking, TRF4339AJ
LF04	23238562	Coil, Peaking, TRF4109AJ
LF05	23238714	Coil, Peaking, TRF4100AJ
LF06	23238714	Coil, Peaking, TRF4100AJ
LF07	23238714	Coil, Peaking, TRF4100AJ
LF08	23238714	Coil, Peaking, TRF4100AJ
LF09	23238506	Coil, Peaking, TRF4229AJ
LF10	23238506	Coil, Peaking, TRF4229AJ
LF11	23103859	Coil (Ferrite Bead), TEM2011
LF12	23238506	Coil, Peaking, TRF4229AJ
LF13	23238714	Coil, Peaking, TRF4100AJ
LF15	23103859	Coil (Ferrite Bead), TEM2011
LF84	23222694	Coil, Width, TLN2026
LM01	23262797	Coil, IF, TRF1093D
LM02	23262002	Coil, IF, TRF1167D
LM03	23262002	Coil, IF, TRF1167D
LM04	23262798	Coil, IF, TRF1092D
LV01	23238710	Coil, Peaking, TRF4220AJ

Location No.	Part No.	Description
LV02	23238710	Coil, Peaking, TRF4220AJ
⚠T401	23224983	Transformer, Horiz. Drive, TLN1039
⚠T461	23236427	Transformer, Flyback, AT2078/21
T801	23211891	Line Filter, TRF3164
⚠T803	23217110	Transformer, Converter, 47317550
TN01	23232002	Coil, Variable, TRF3520D
TN02	23262843	Coil, PIF Trap, TRF1457D

SEMICONDUCTORS

IC101	23318617	IC, μPC1823CU
IC140	B0372960	IC, TA78L009AP
IC141	B0372960	IC, TA78L009AP
IC330	23319459	IC, LA7837
IC408	23319203	IC, MC7812CT
IC501	B0383970	IC, TA8783N
IC605	23318413	IC, LA4282
IC801	23318232	IC, TDA4601
IC805	23318299	IC, L78MR05-FA
ICA01	23319844	IC, CXP80420-135
ICA05	23119441	IC, LA7910
ICA07	23319016	IC, μPD6254CX
ICF02	23319143	IC, SAA5246P/E
ICF03	23319001	IC, IMS1630LP12
ICG01	B0383400	IC, TA8710S
ICG07	B0383935	IC, TA8776N
ICV01	B0383941	IC, TA8777N FA-1
ICV22	B0370110	IC, TA78L09S
ICV23	B0370110	IC, TA78L09S
ICY50	B0383933	IC, TA8775AN
Q105	A6357139	Transistor, 2SC3125FA-6
Q110	A6043341	Transistor, 2SK209GR
Q111	A6317781	Transistor, 2SC1815Y(TP)
Q131	A6357139	Transistor, 2SC3125FA-6
Q132	A6335477	Transistor, 2SC2712-Y(R)
Q133	A6335477	Transistor, 2SC2712-Y(R)
Q160	A6357139	Transistor, 2SC3125FA-6
Q180	A6041876	Transistor, 2SK117-GR FA-2
Q181	23114689	Transistor, BC547A
Q185	A6357139	Transistor, 2SC3125FA-6
Q202	23114691	Transistor, BC557A
Q220	23114689	Transistor, BC547A
Q221	23114689	Transistor, BC547A
Q332	23114689	Transistor, BC547A
Q333	23114689	Transistor, BC547A
Q334	23114689	Transistor, BC547A
Q402	A6330069	Transistor, 2SC2482FA-1
⚠Q404	23314375	Transistor, ON4409
Q505	A6363200	Transistor, 2SC3619
Q506	23114689	Transistor, BC547A
Q507	A6363200	Transistor, 2SC3619
Q508	23114689	Transistor, BC547A
Q509	A6363200	Transistor, 2SC3619
Q510	23114689	Transistor, BC547A
Q512	23114689	Transistor, BC547A
Q514	23114688	Transistor, BC327
Q516	23114689	Transistor, BC547A
Q546	23114689	Transistor, BC547A
Q602	A6335477	Transistor, 2SC2712-Y(R)
Q604	23114691	Transistor, BC557A
Q609	A6342206	Transistor, 2SC2878-A
Q610(U101)	A6335477	Transistor, 2SC2712-Y(R)

Location No.	Part No.	Description
Q610(U902)	A6342206	Transistor, 2SC2878-A
Q612	A6335477	Transistor, 2SC2712-Y(R)
Q613	A6541137	Transistor, 2SA1162-Y
Q614	A6335477	Transistor, 2SC2712-Y(R)
Q640	A6335477	Transistor, 2SC2712-Y(R)
Q802	A6868767	Transistor, 2SD1428
Q810	23114632	Transistor, BC547B
Q811	23114632	Transistor, BC547B
Q812	A6342206	Transistor, 2SC2878-A
Q813	23114632	Transistor, BC547B
Q815	23114632	Transistor, BC547B
Q816	23114632	Transistor, BC547B
Q817	23114632	Transistor, BC547B
Q833	A6907751	Transistor, S1854
Q840	23114546	Transistor, BC557B
Q841	A6547250	Transistor, 2SA1320
Q842	A6325067	Transistor, 2SC2230A-Y
Q843	A6547303	Transistor, 2SA1321
Q844	23114546	Transistor, BC557B
Q845	23314246	Transistor, 2SC2023LF-4
QA02	A6342206	Transistor, 2SC2878-A
QA03	23114689	Transistor, BC547A
QA04	23114689	Transistor, BC547A
QA06	23114689	Transistor, BC547A
QA10	23114689	Transistor, BC547A
QA11	23114691	Transistor, BC557A
QA12	A6342206	Transistor, 2SC2878-A
QA13	23114689	Transistor, BC547A
QA14	23114689	Transistor, BC547A
QA25	23114689	Transistor, BC547A
QA90	23114689	Transistor, BC547A
QB01	23114689	Transistor, BC547A
QB02	23114689	Transistor, BC547A
QF04	23114689	Transistor, BC547A
QF05	23114689	Transistor, BC547A
QF80	A6842185	Transistor, 2SD553-Y
QG04	A6335477	Transistor, 2SC2712-Y(R)
QG05	A6335477	Transistor, 2SC2712-Y(R)
QG06	A6335477	Transistor, 2SC2712-Y(R)
QG10	A6335477	Transistor, 2SC2712-Y(R)
QG11	A6335477	Transistor, 2SC2712-Y(R)
QN05	23114689	Transistor, BC547A
QN11	A6342206	Transistor, 2SC2878-A
QN14	A6357139	Transistor, 2SC3125FA-6
QV02	23114691	Transistor, BC557A
QV04	23118980	Transistor, BC337
QV80	23114689	Transistor, BC547A
QW30	23114689	Transistor, BC547A
QW31	23114689	Transistor, BC547A
QY01	A6734585	Transistor, 2SC752GTM-O
D101	A7288601	Diode, 1S2186 FA-1
D102	23316293	Diode, Zener, UZ3.3BSB
D108	23115878	Diode, Zener, uPC574J(L)
D109	23115599	Diode, 1N4148
D140	A7150258	Diode, 1SS176
D141	A7150258	Diode, 1SS176
D241	A7150041	Diode, 1SS104
D302	23118479	Diode, BYD33J
D340	23115599	Diode, 1N4148
D341	23118479	Diode, BYD33J
D342	23115599	Diode, 1N4148
D343	23115599	Diode, 1N4148
D345	23316337	Diode, Zener, UZ13BSC
D401	23316325	Diode, Zener, UZ9.1BSC

Location No.	Part No.	Description
D402	23316367	Diode, Zener, UZ33BSB
D403	23316333	Diode, Zener, UZ12BSB
D406	23118479	Diode, BYD33J
D408	23118052	Diode, RU4Z
D410	23316321	Diode, Zener, UZ8.2BSB
D594	23115599	Diode, 1N4148
D595	23115599	Diode, 1N4148
D596	23115599	Diode, 1N4148
D601	23115599	Diode, 1N4148
D602	23115599	Diode, 1N4148
⚠D801	23118173	Diode, RBV-406M-LFA
D805	23118479	Diode, BYD33J
D807	23118479	Diode, BYD33J
D808	23118736	Diode, BYV96E
D809	23118451	Diode, RU4A
D810	23118052	Diode, RU4Z
D811	23118479	Diode, BYD33J
D812	23316337	Diode, Zener, UZ13BSC
D813	23118479	Diode, BYD33J
D814	A8643106	Photo Coupler, TLP621(GR)
D815	23115599	Diode, 1N4148
D830	A8643106	Photo Coupler, TLP621(GR)
D832	23316307	Diode, Zener, UZ5.1BSC
D834	23316554	Diode, 1SS146
D836	23118052	Diode, RU4Z
D841	23316554	Diode, 1SS146
D842	23316554	Diode, 1SS146
D845	23115599	Diode, 1N4148
DA01	A7116425	Diode, Zener, 04AZ5.6Z
DA04	23115599	Diode, 1N4148
DA05	23115599	Diode, 1N4148
DA06	23115599	Diode, 1N4148
DA15	A7116515	Diode, Zener, 04AZ6.2Y
DA16	A7116515	Diode, Zener, 04AZ6.2Y
DA17	A7116515	Diode, Zener, 04AZ6.2Y
DA32	23115599	Diode, 1N4148
DA96	A7116515	Diode, Zener, 04AZ6.2Y
DA98	A7116515	Diode, Zener, 04AZ6.2Y
DA99	A7116515	Diode, Zener, 04AZ6.2Y
DE50	A8636541	Diode (LED), TLS153, Red
DF80	23316309	Diode, Zener, UZ5.6BSB
DG06	A7288601	Diode, 1S2186 FA-1
DG07	A7288601	Diode, 1S2186 FA-1
DG08	A7288601	Diode, 1S2186 FA-1
DG09	A7150258	Diode, 1SS176
DG10	A7150258	Diode, 1SS176
DN25	A7288601	Diode, 1S2186 FA-1
DN30	A7288601	Diode, 1S2186 FA-1
DT50	A8606431	Diode (LED), TLG153, Green
DV07	23115599	Diode, 1N4148

MISCELLANEOUS

B202	23443043	Knob (Sub)
⚠F801	23144898	Fuse, 3.15A
F801A	23165433	Fuse Holder
⚠F803	23144827	Fuse, 0.63A
F803A	23165433	Fuse Holder
K901	23120303	Remote Sensor, IR-9109-K
P101	23367684	Plug, 11P
P663A	23902062	Connector, 5P
P666	23363607	Headphone Jack, 3.5mm
⚠P801	23176697	Power Cord
PH01	23365598	21 Pin Connector
PH02	23365598	21 Pin Connector
PH03	23365506	Jack, S+2P
PH04	23365351	Jack Phono, 3P
PH05	23161699	Terminal, 4P
S301	23145682	Switch, Lever, 1C3P
S501	23145430	Switch, Push, 1C1P
S502	23145430	Switch, Push, 1C1P
S503	23145430	Switch, Push, 1C1P
S504	23145430	Switch, Push, 1C1P
⚠S801	23145434	Switch, Power, 2C2P
SV02	23145467	Switch, Slide, 2C2P
⚠V901A	23902019	Socket, CRT, 10P
W201	23250884	Delay Line, TRF2084B
W661	23351070	Speaker, SPK-1342, 120x60mm, 4 ohm
W662	23351070	Speaker, SPK-1342, 120x60mm, 4 ohm
X401	23153721	Ceramic Resonator, 503kHz, TCR1023
X501	23153979	Crystal, 4.43MHz
X502	23250950	Coil, 1H-Delay Line, DL711
XA01	23153845	Ceramic Resonator, 4MHz, TCR1015
XN01	23153961	Crystal, 3.58MHz
Z102	A5613026	B/GI D/K, F328FM
Z103	A5611342	B/GI D/K, F1054E
Z110	23107911	Ceramic Video Trap, 5.5to 6MHz, TCF1019
Z111	23107658	Ceramic Video Trap, 5.74MHz, TCF1052
Z201	23107925	Ceramic Video Trap, 6.5MHz, TCF1013
Z612	23107948	Ceramic Filter, 6.0MHz, SFE6.0MBF
Z630	23153987	Ceramic Resonator, CSB500F32
Z664	23153900	Ceramic Resonator, 500kHz, TCR1010
ZF01	23153012	Crystal, 27MHz
ZG03	23107948	Ceramic Filter, 6.0MHz, SFE6.0MBF
ZG04	23107947	Ceramic Filter, 5.5MHz, SFE5.5MBF
ZG05	23107949	Ceramic Filter, 6.5MHz, SFE6.5MBF
ZV01	23107849	Ceramic Video Trap, 4.43MHz, TCF1032
ZV14	23107787	Ceramic Video Trap, 3.58MHz, TCF1044

PC BOARD ASSEMBLIES

U902A	23369498	Main Board, PB2651
U903A	23369504	Power-1Board, PB2653-1
U903B	23369505	CRT Drive Board, PB2653-2
U903C	23369506	Power-2Board, PB2653-3
U903D	23369507	Headphone Board, PB2653-4
Y991Z(U101)	23791117	PIF Board, PB2652-1
Y992Z(UG01)	23791118	AMPLI Stereo Board, PB2652-2

PICTURE TUBE

⚠V901	23112348	Picture Tube, A51EAL30X01

Location No.	Part No.	Description
TUNER		
H001	23321005	Tuner, VHF/UHF, EG449X1
ACCESSORIES		
K902	23120012	Remote Hand Unit, CT-9558
AT03	23305260	Battery Cover
Y101	23561643	Owner's Manual

Location No.	Part No.	Description

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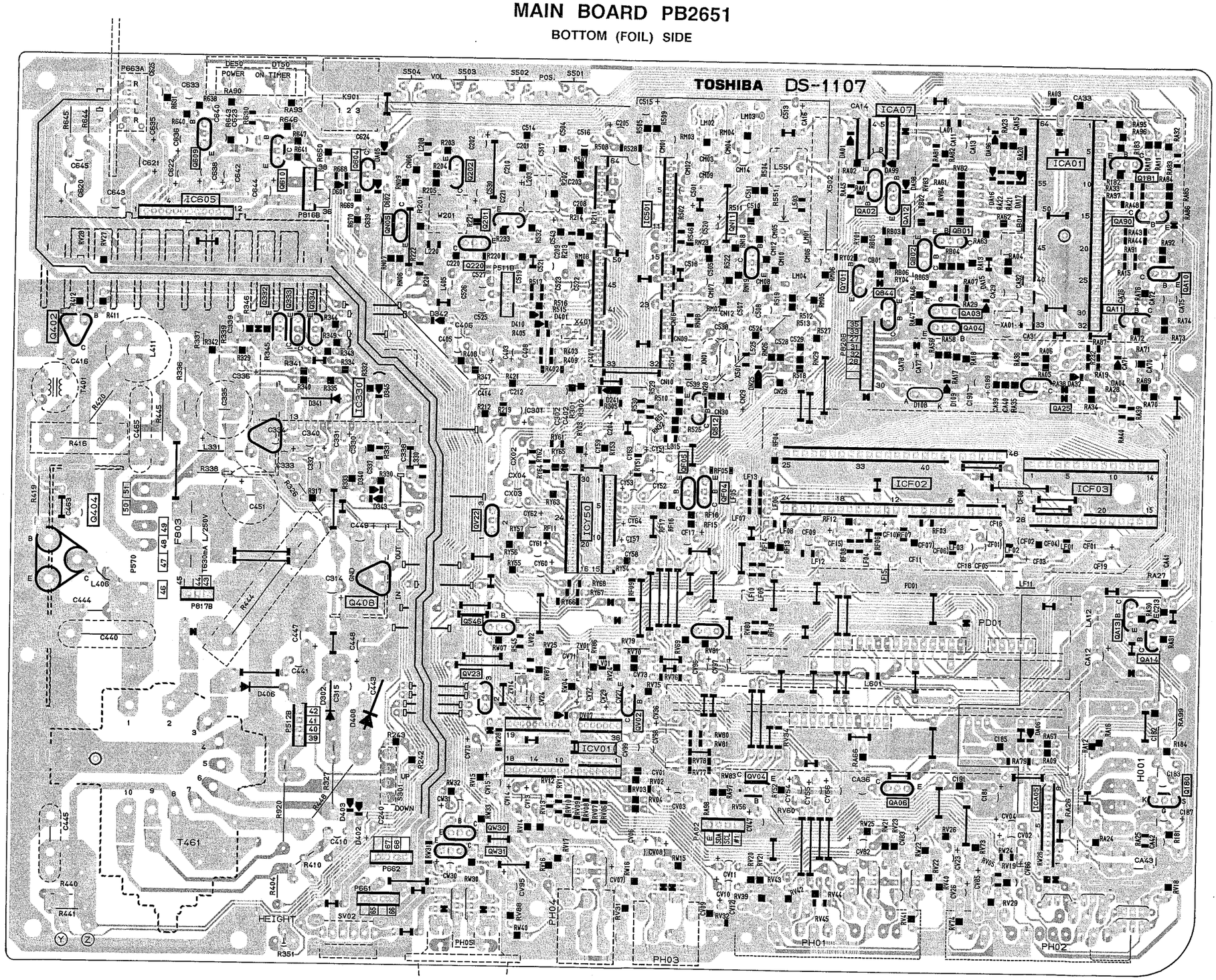
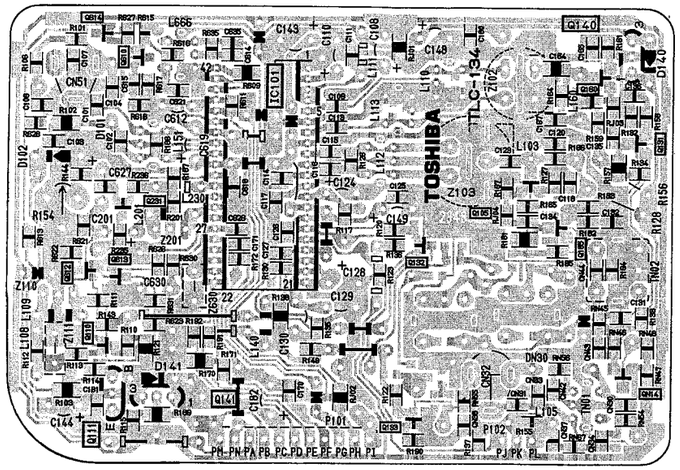
MAIN BOARD PB2651

BOTTOM (FOIL) SIDE



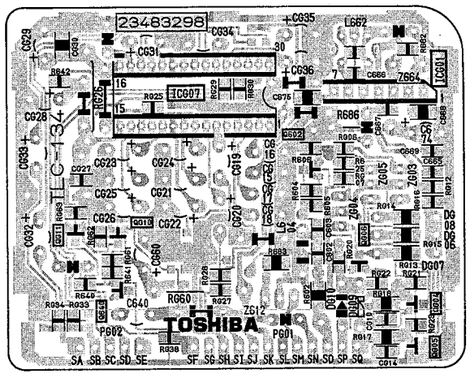
PIF BOARD PB2652-1

BOTTOM (FOIL) SIDE



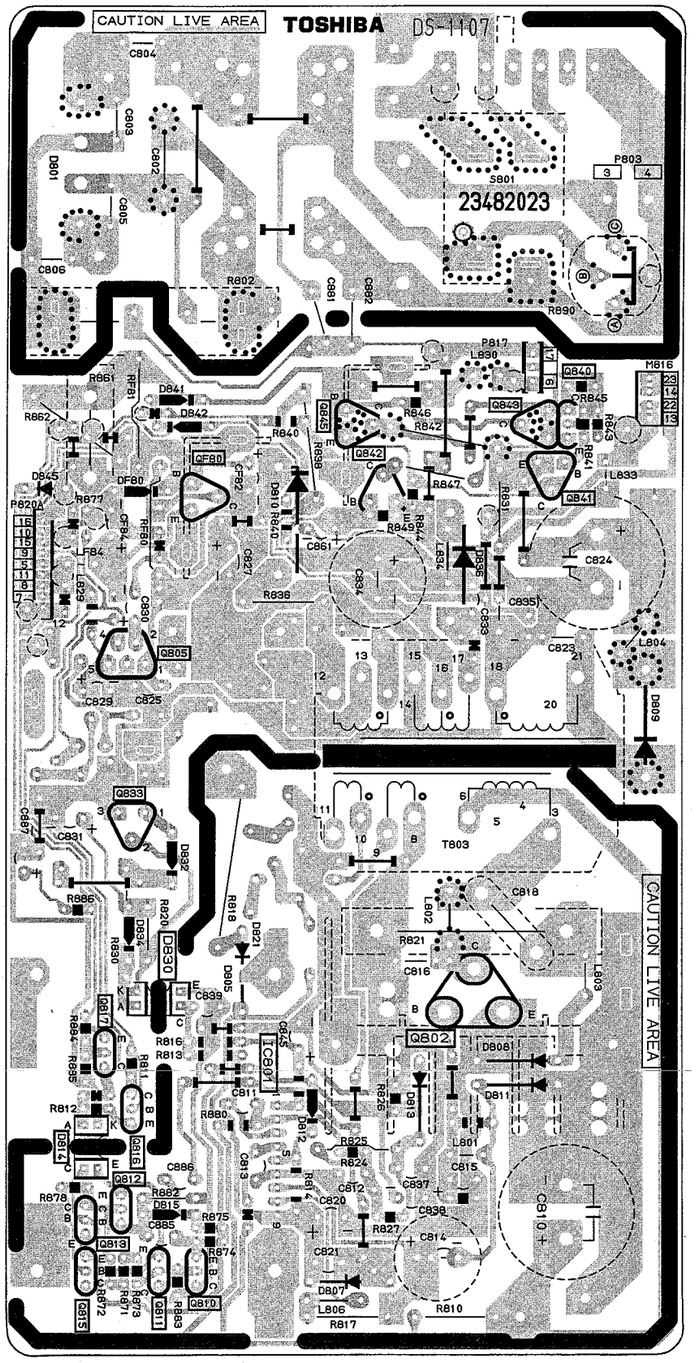
AMPL STEREO BOARD PB2652-2

BOTTOM (FOIL) SIDE



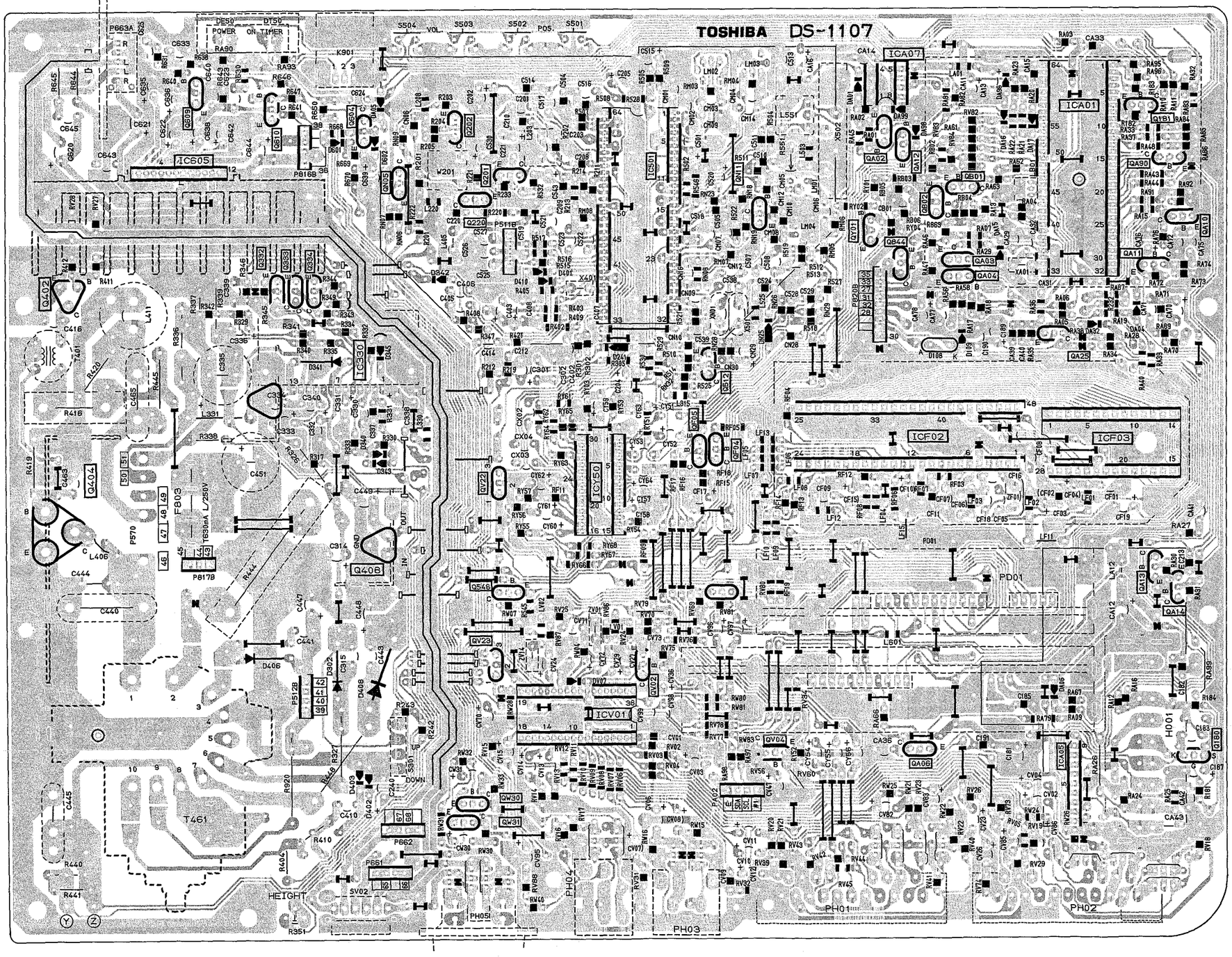
POWER-1 BOARD PB2653-1

BOTTOM (FOIL) SIDE



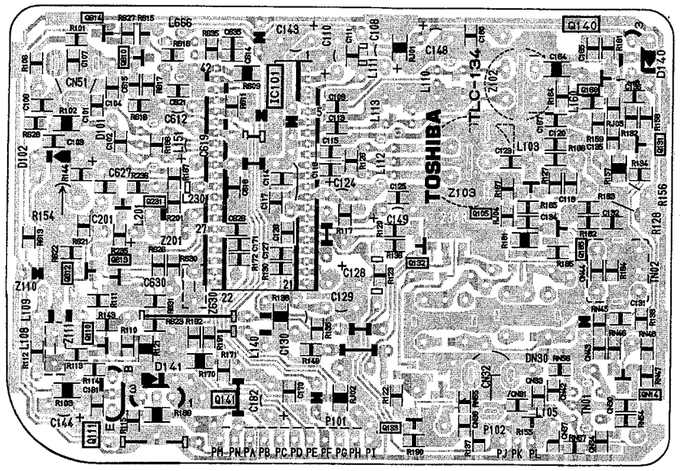
MAIN BOARD PB2651

BOTTOM (FOIL) SIDE



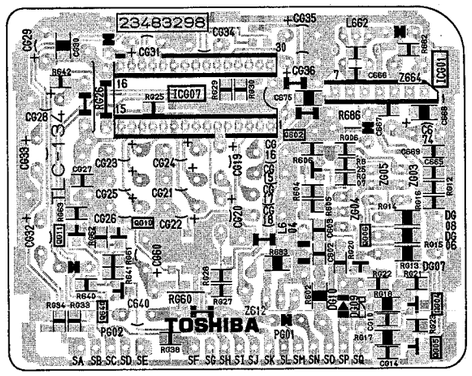
PIF BOARD PB2652-1

BOTTOM (FOIL) SIDE



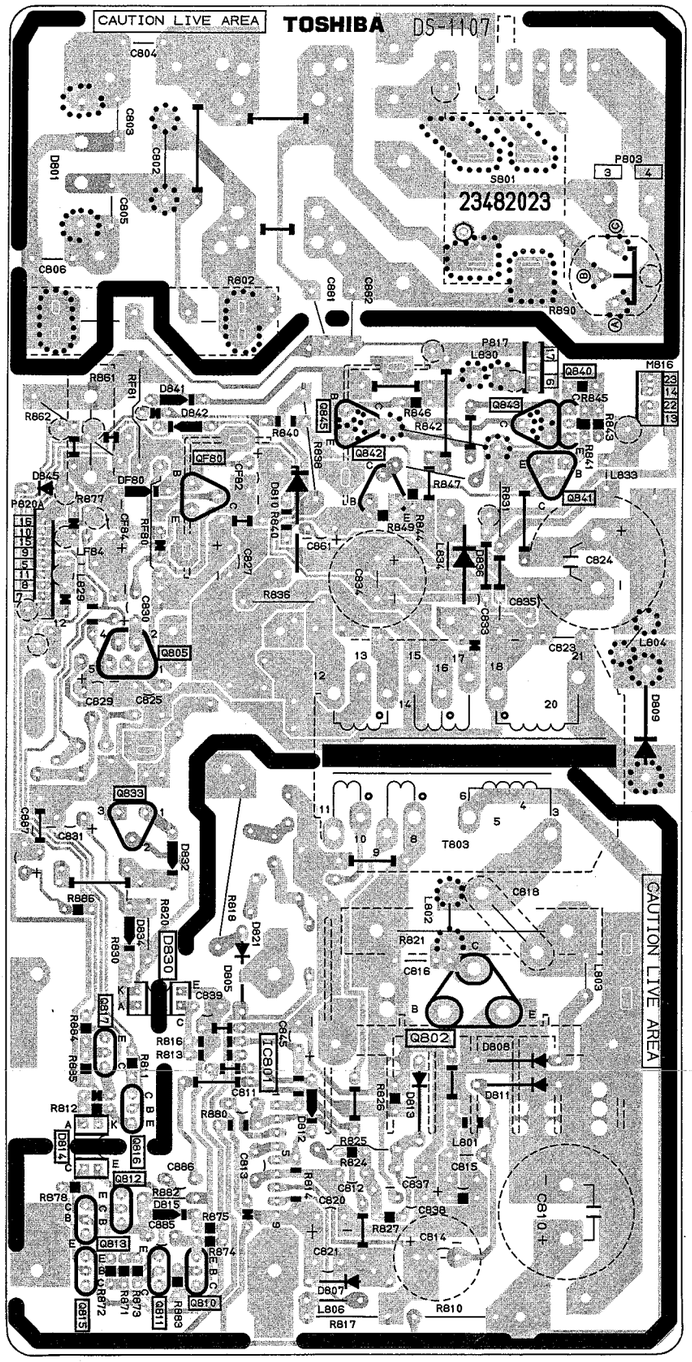
AMPL STEREO BOARD PB2652-2

BOTTOM (FOIL) SIDE



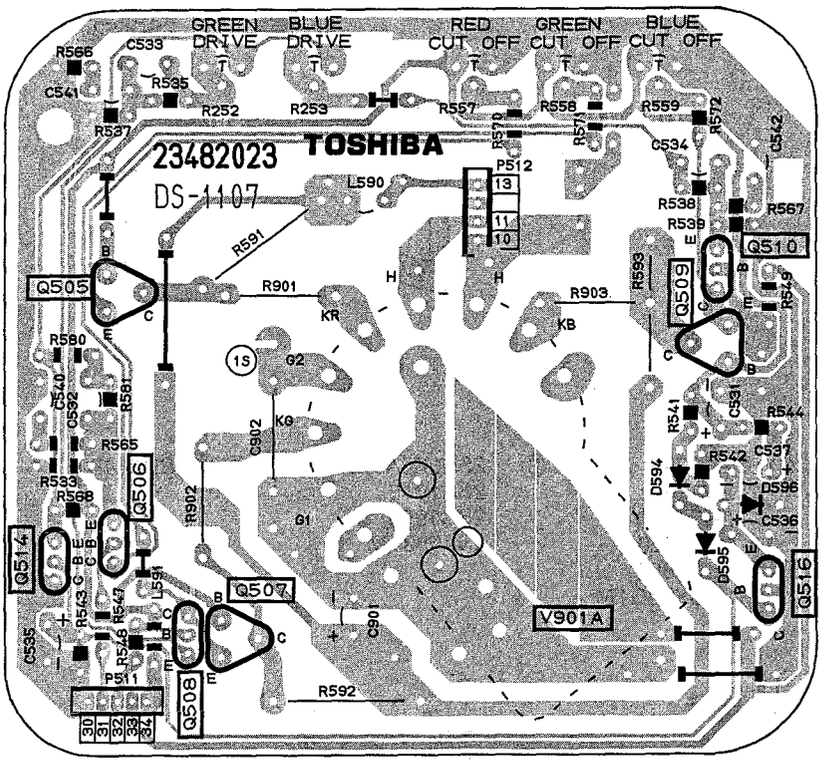
POWER-1 BOARD PB2653-1

BOTTOM (FOIL) SIDE



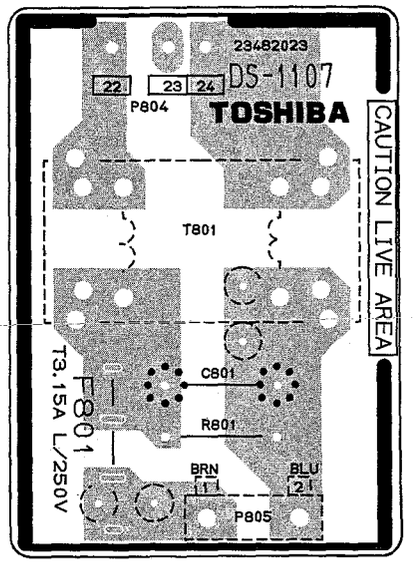
CRT DRIVE BOARD PB2653-2

BOTTOM (FOIL) SIDE



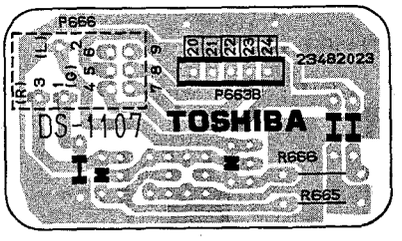
POWER-2 BOARD PB2653-3

BOTTOM (FOIL) SIDE



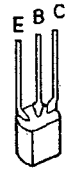
HEADPHONE BOARD PB2653-4

BOTTOM (FOIL) SIDE

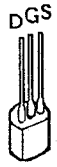


TERMINAL VIEW OF TRANSISTORS

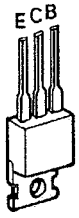
① BC327
BC337
BC547A
BC547B
BC547C
BC557A
BC557B
BC556A



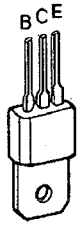
② 2SK30ATM
2SK117



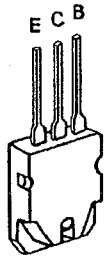
③ BD202



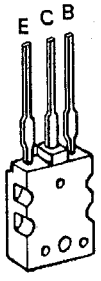
④ BF871
2SD553
2SC1569



⑤ 2SC3678
2SC3182N



⑥ 2SD1427
2SD1432



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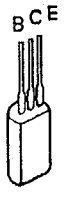
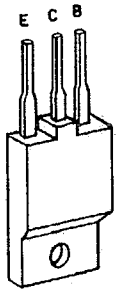
2SC2230
2SA1020
2SC2655
2SC752GTM



⑧ 2SC388ATM
2SA1015
2SC1959
2SA562TM

⑨ 2SD1548



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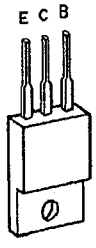
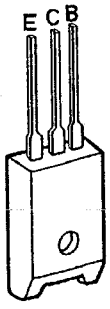


⑪ ON4409



MEMO

MEMO

2122TF

SCHEMATIC DIAGRAM (1/2)

U101 PIF BOARD PB2652-1

UG01 AMPLI STEREO BOARD PB2652-2

U902 MAIN

U904D H.P. BOARD PB2653-4

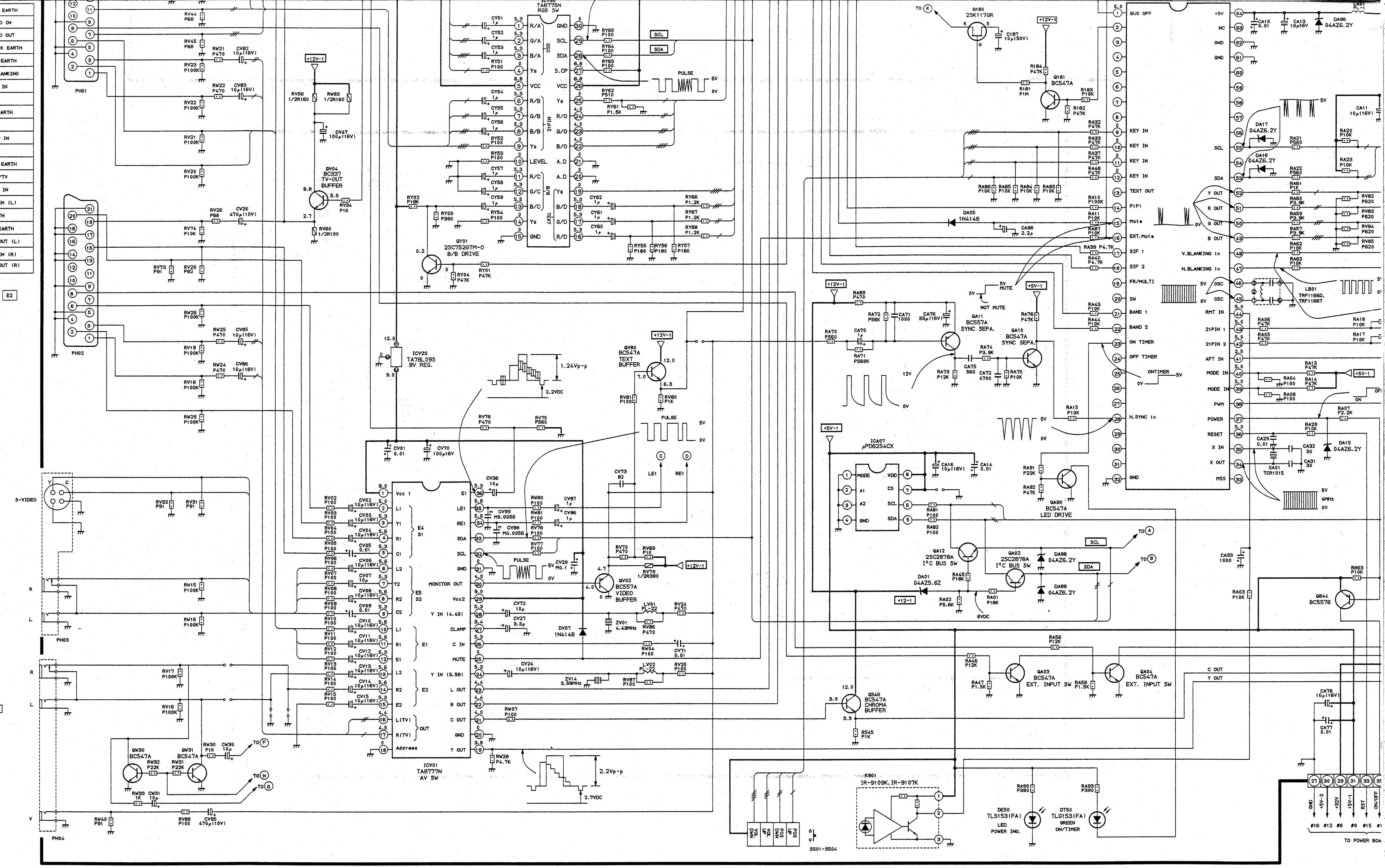
TO POWER BOARD

21	SHIELD EARTH
20	VIDEO IN
19	VIDEO OUT
18	RAPID BLK EARTH
17	VIDEO EARTH

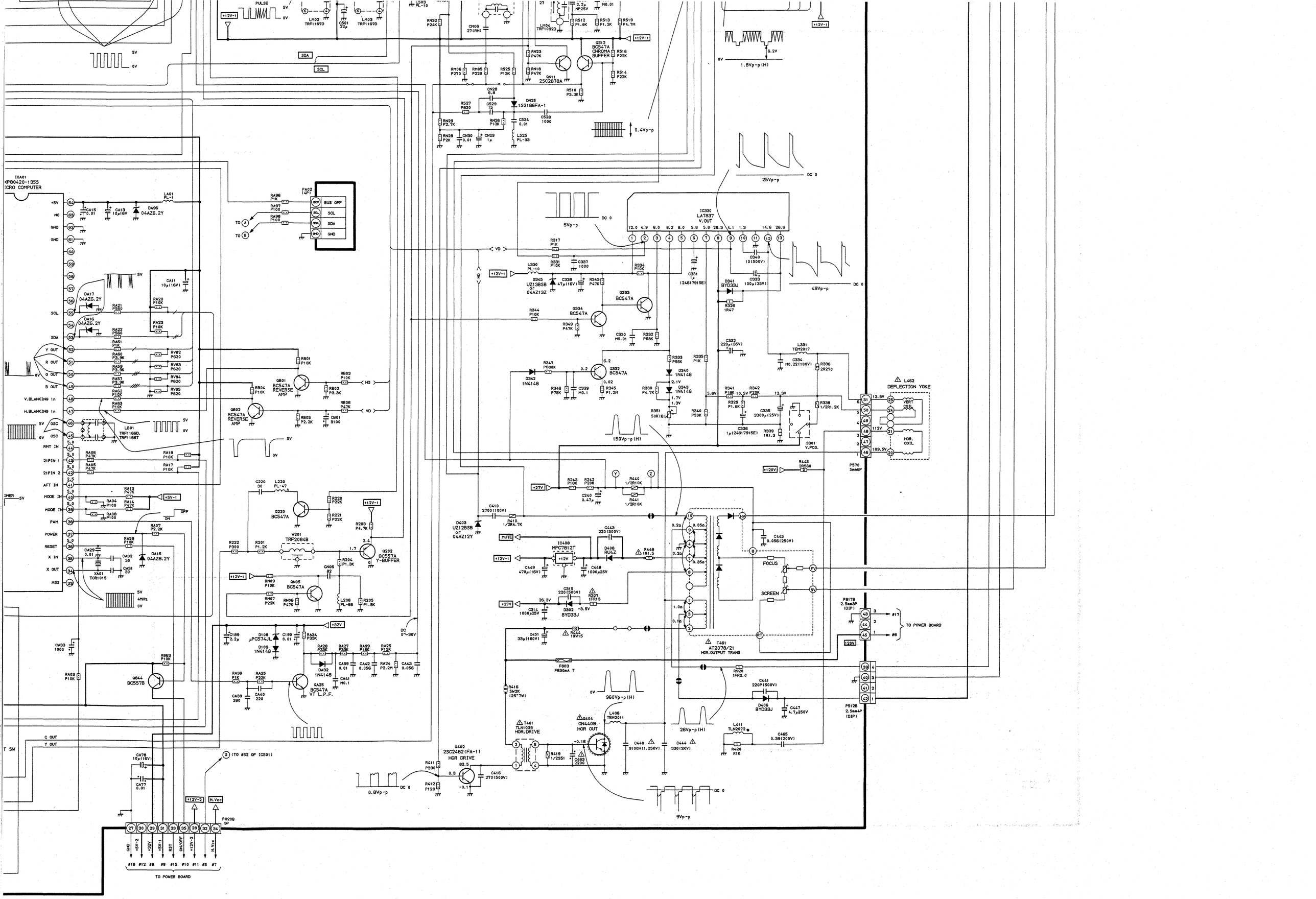
21	SHIELD EARTH
20	VIDEO IN
19	VIDEO OUT
18	RAPID BLK EARTH
17	VIDEO EARTH
16	RAPID BLANKING
15	RED IN
14	NC
13	RED EARTH
12	NC
11	GREEN IN
10	NC
9	GREEN EARTH
8	EXT/TV
7	BLUE IN
6	AUDIO IN (L)
5	EARTH
4	AUDIO EARTH
3	AUDIO OUT (L)
2	AUDIO IN (R)
1	AUDIO OUT (R)

E2

E3

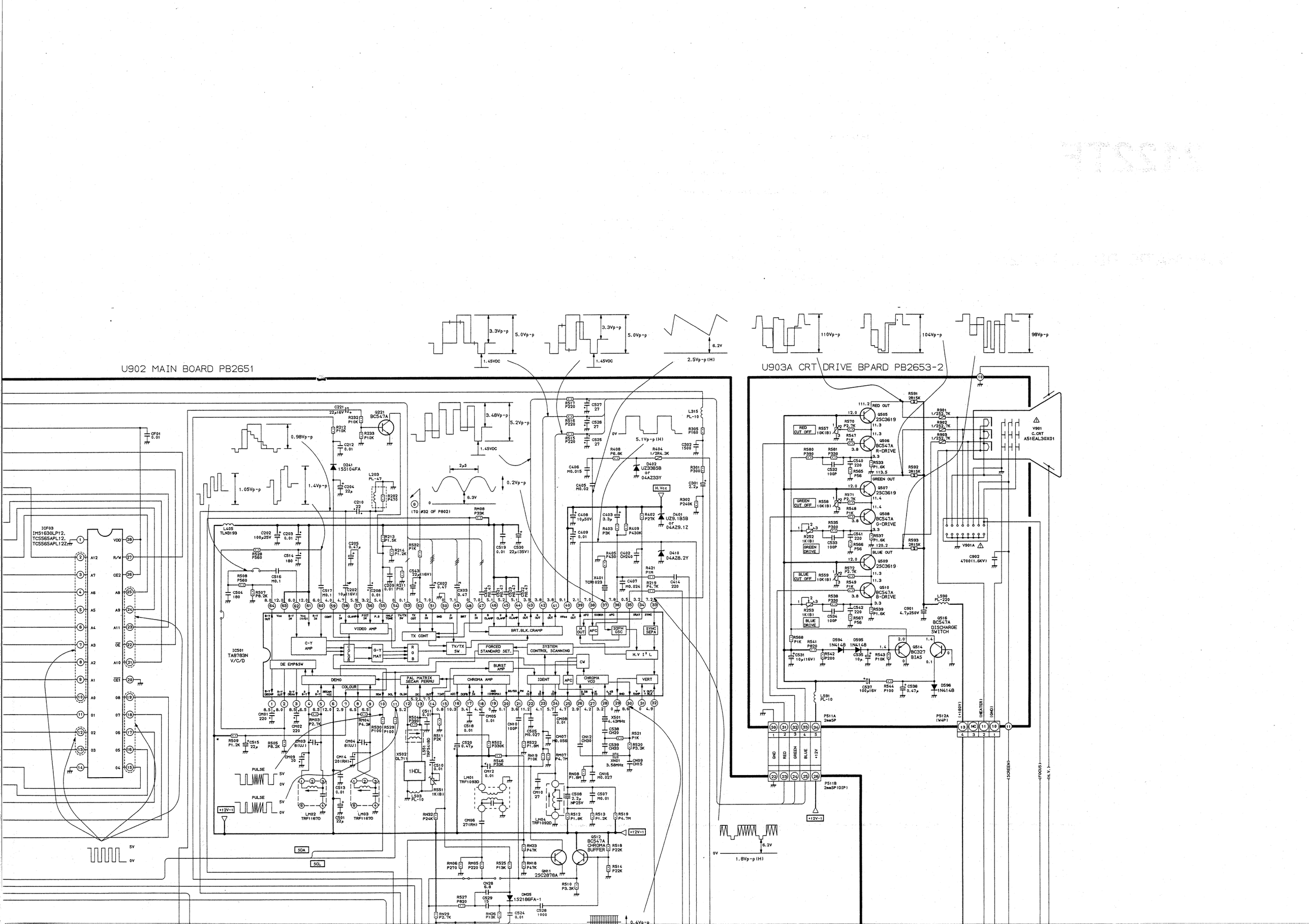


PH01
PH02
PH03
PH04
S-VIDEO
ICT50 TA8775N RGB SW
ICV01 TA8777N AV SW
ICV23 TA78L09S 9V REG.
ICA07 μPD6254CX
QV04 BC337 TV-OUT BUFFER
QY01 2SC752GTM-0 B/B DRIVE
QV80 BC547A TEXT BUFFER
QV02 BC557A VIDEO BUFFER
QA11 BC557A SYNC SEPA.
QA10 BC547A SYNC SEPA.
QA90 BC547A LED DRIVE
QA12 2SC2878A I²C BUS SW
QA02 2SC2878A I²C BUS SW
QA03 BC547A EXT. INPUT SW
QA04 BC547A EXT. INPUT SW
Q546 BC547A CHROMA BUFFER
Q844 BC557B
Q180 2SK117GR
Q181 BC547A
QW30 BC547A
QW31 BC547A
K901 IR-9109K, IR-9107K
DE50 TLS153(FA) LED POWER IND.
DT50 TLG153(FA) GREEN ON/TIMER
S501-S504
TO POWER BOA


IC01
KP80420-1355
MICRO COMPUTER
+5V
NC
GND
GND
SCL
SDA
Y OUT
R OUT
G OUT
B OUT
V.BLANKING In
H.BLANKING In
OSC
OSC
RMT IN
21PIN 1
21PIN 2
AFT IN
MODE IN
MODE IN
PWM
POWER
RESET
X IN
X OUT
MSS
IMER
C OUT
Y OUT
T SW
L401 PL-1
CA15 0.01
CA13 10µ/16V
DA96 04AZ6.2Y
CA11 10µ(16V)
DA17 04AZ6.2Y
DA16 04AZ6.2Y
RA21 P560
RA22 P560
RA29 P10K
RA23 P10K
RA61 P1K
RA69 P3.9K
RA59 P3.9K
RA57 P3.9K
RA62 P10K
RA63 P10K
RV82 P620
RV83 P620
RV84 P620
RV85 P620
LB01 TRF1166D, TRF1166T
RA06 P47K
RA05 P47K
RA18 P10K
RA17 P10K
RA13 P47K
RA04 P100
RA14 P47K
RA08 P100
+5V-1
ON
OFF
RA07 P2.2K
RA29 P10K
CA29 0.01
CA32 30
CA31 30
XA01 TCR1015
DA15 04AZ6.2Y
5V 4MHz 0V
PA02 14P1
BUS OFF
SCL
SDA
GND
TO A
TO B
RA96 P1K
RA97 P100
RA98 P100
RB01 P10K
RB04 P10K
QB01 BC547A REVERSE AMP
RB03 P10K
RB02 P3.3K
RB06 P47K
QB02 BC547A REVERSE AMP
RB05 P2.2K
CB01 B100
HD
VD
C220 30
L220 PL-47
Q220 BC547A
R220 P22K
R221 P22K
+12V-1
R203 P4.7K
W201 TRF2084B
R222 P300
R201 P1.2K
R204 P1.3K
Q202 BC557A Y-BUFFER
CN06 82
RN09 P10K
QN05 BC547A
RN07 P22K
RN06 P47K
L208 PL-68
R205 P1.8K
+32V
C189 2.2µ
D108 µPC574JL
D109 1N4148
C190 0.01
RA34 P33K
R428 P33K
R427 P33K
R429 P18K
R425 P15K
DA32 1N4148
CA99 0.01
CA42 0.056
CA24 P2.2M
CA43 0.056
CA41 M0.1
RA36 P1K
RA35 P22K
CA39 390
CA40 220
QA25 BC547A VT L.P.F.
RB63 P10K
RA03 P10K
Q844 BC557B
CA33 1000
CA78 10µ(16V)
CA77 0.01
G (TO #52 OF IC501)
+12V-2
H.Vcc
P820B 9P
GND
+5V-2
+32V
+5V-1
RST
ON/OFF
+12V-2
H.Vcc
#16 #12 #8 #9 #15 #10 #11 #5 #7
TO POWER BOARD
PULSE
5V
0V
+12V-1
LM02 TRF1167D
C501 22µ
LM03 TRF1167D
SDA
SCL
L303 PL-10
RN32 P24K
CN05 27(RH)
LM04 TRF1092D
C512 2.2µ NP25V
M0.01
R512 P1.6K
R513 P1.2K
R519 P4.7M
RN23 P47K
RN18 P47K
QN11 2SC2878A
Q512 BC547A CHROMA BUFFER
R518 P22K
R514 P22K
R510 P3.3K
RM06 P270
RM05 P220
R525 P13K
CN28 6.8
DM05 1S2186FA-1
R527 P820
C529 15
C524 0.01
C528 1000
RN29 P2.7K
RN26 P13K
RN28 P2K
CN30 0.01
CN29 1µ
L525 PL-33
0.4Vp-p
6.2V
1.8Vp-p(H)
+12V-1
5Vp-p
DC 0
IC330 LA7837 V.OUT
12.0 4.9 6.0 6.2 8.0 5.8 5.8 26.3 4.1 1.3 14.6 26.6
C340 10(500V)
25Vp-p
DC 0
R317 P1K
R331 P10K
C337 1000
L330 PL-10
D345 UZ13B5B or 04AZ13Z
C338 47µ(16V)
R343 P47K
R334 P10K
C331 1µ(24617915E)
Q341 BYD33J
C333 100µ(35V)
49Vp-p
DC 0
R326 1R47
Q333 BC547A
Q334 BC547A
R344 P10K
R349 P47K
C330 M0.01
R332 P68K
C332 220µ(35V)
L331 TEM2017
C334 M0.22(100V)
R396 2R270
R347 P680K
D342 1N4148
R346 P75K
C339 M0.1
Q332 BC547A
R345 P1.2M
R333 P56K
R335 P1K
D340 1N4148
D343 1N4148
R339 P4.7K
R351 50K(B)
R340 P30K
5.8V
R341 P18K
R342 P20K
10.5V
13.3V
R329 P1.6K
C335 3300µ(25V)
C336 1µ(24617915E)
R339 1R1.3
S301 V.POS.
150Vp-p(H)
L462 DEFLECTION YOKE
13.8V
112V
109.5V
VERT COIL
HOR. COIL
P570 5mmGP
+120V
R445 2R580
+27V
R243 P18K
R242 P20K
R440 1/2R10K
R441 1/2R10K
C240 0.47µ
C410 2700(100V)
R410 1/2R4.7K
D403 UZ12BSB or 04AZ12Y
MUTE
IC408 MPC7812T
+12V
C443 220(500V)
D408 RU4Z
R448 (R1.5
C449 470µ(16V)
C448 1000µ25V
C445 0.056(250V)
FOCUS
SCREEN
FV
SV
HV
C315 220(500V)
R327 1FR13
C314 1000µ25V
D362 BYD33J
26.3V
-3.5V
T461 AT2078/21 HOR.OUTPUT TRANS
C451 33µ(160V)
R444 10W15
FB03 F630mA T
P817B 2.5mm3P (DIP)
#17
#6
TO POWER BOARD
120V
P512B 2.5mm4P (DIP)
R920 1FR2.0
C441 220P(500V)
D406 BYD33J
C447 4.7µ250V
R416 SW2K (25°7W)
960Vp-p(H)
T401 TLN1039 HOR.DRIVE
Q404 QN4409 HOR OUT
L408 TEM2011
C440 9100H(1.25KV)
C444 330(2KV)
L411 TLN2072
C465 0.39(200V)
R429 R1K
26Vp-p(H)
Q402 2SC2482(FA-1) HOR DRIVE
R411 P390
R412 P120
C416 270(500V)
R419 1/2S51
C463 2200
0.8Vp-p
DC 0
9Vp-p
DC 0

U902 MAIN BOARD PB2651

U903A CRT DRIVE BPARD PB2653-2



2122TF

SCHEMATIC DIAGRAM (2/2)

IMPORTANT SAFETY NOTICE

Component marked with the International Hazard Symbol must, if changed, be replaced by an approved type and must be mounted as the original. This will ensure that the safety standards adhered to during manufacture will be maintained following any servicing procedure.

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltage readings were obtained using a high impedance digital voltmeter.
2. (—) or ground lead of instruments should be connected to the ground marked (⊥) in the shematic on checking Non-isolated circuit surrounded by mark but should be connected to the points marked (⏚) on checking isolated circuit.
3. The voltage readings may vary as much as ±20%.
4. Check that the Tuning, A.F.C., Brightness, Contrast and Colour controls are adjusted for the best picture, making sure that the Contrast,Brightness and Colour controls are set near to their mid-positions.
5. The waveforms were taken using a standard colour bar signal and were observed using a wide band oscilloscope via a low capacity probe.

NOTES:

1. This circuit diagram is subject to change without notice.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000.
2. Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.

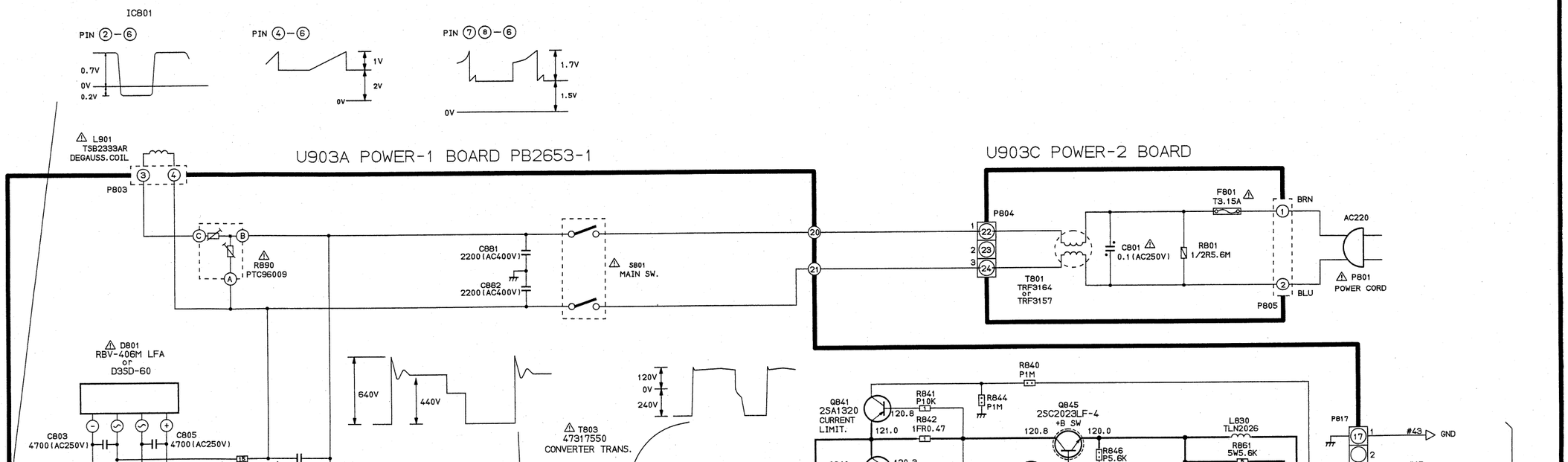
GROUNDING SYMBOL

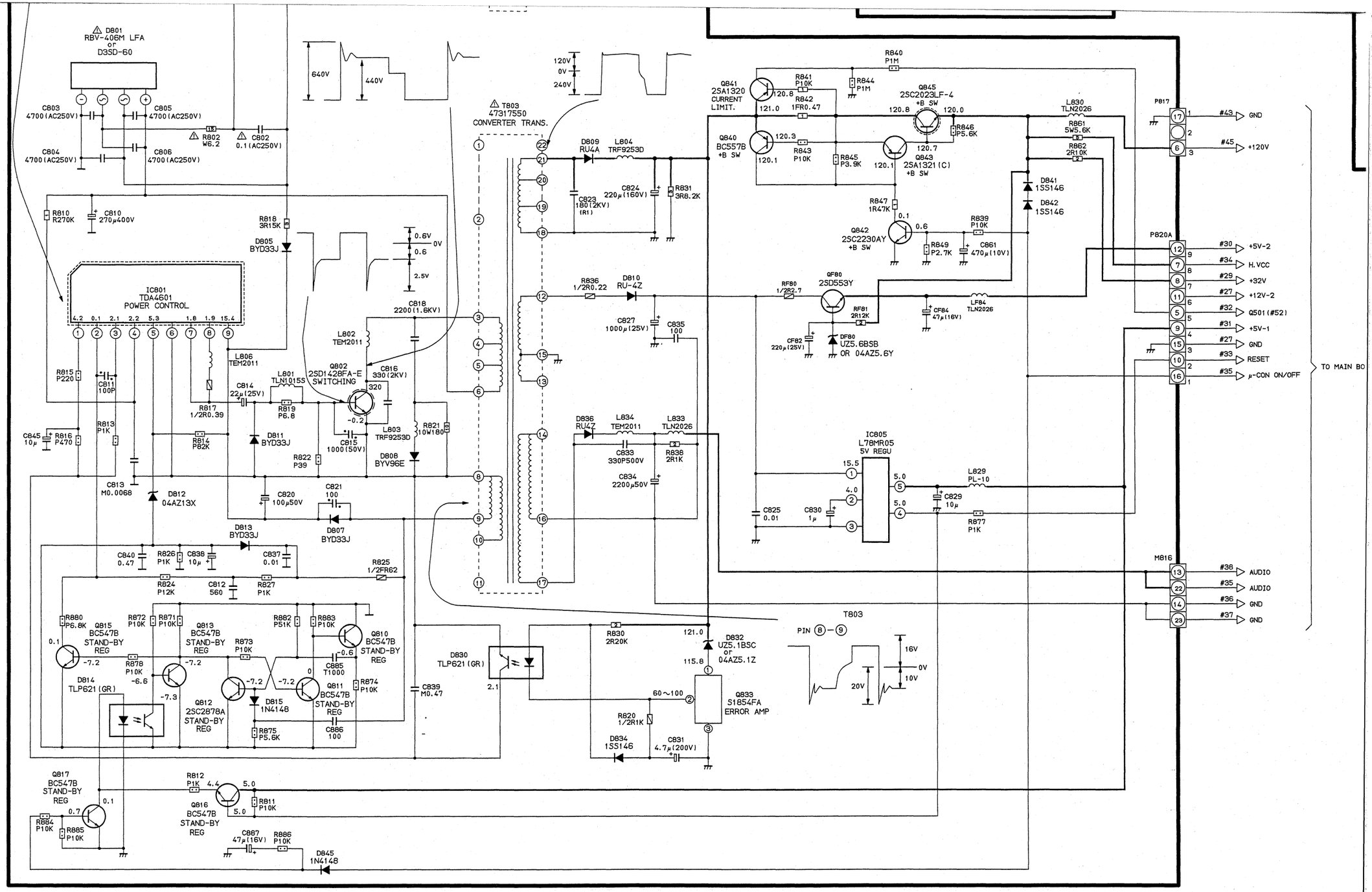
1. ⊥: Non isolated ground, ⏚ : Isolated ground.

RESISTOR

Prefixed to v

TY
Carbor
Oxide M
Ins. Car
Wire '
Cement cc
Fusib




⚠ D801 RBV-406M LFA or D3SD-60
C803 4700(AC250V)
C805 4700(AC250V)
C804 4700(AC250V)
C806 4700(AC250V)
⚠ R802 W6.2
⚠ C802 0.1(AC250V)
640V
440V
120V
0V
240V
⚠ T803 47317550 CONVERTER TRANS.
R810 R270K
C810 270μ400V
R818 3R15K
D805 BYD33J
0.6V
0V
0.6
2.5V
IC801 TDA4601 POWER CONTROL
4.2 0.1 2.1 2.2 5.3 1.8 1.9 15.4
C818 2200(1.6KV)
L802 TEM2011
L806 TEM2011
R815 P220
C811 100P
C814 22μ(25V)
L801 TLN1015S
R819 P6.8
Q802 2SD1428FA-E SWITCHING
320
-0.2
C816 330(2KV)
R817 1/2R0.39
R821 10W180
L803 TRF9253D
C815 1000(50V)
C645 10μ
R816 P270
R813 P1K
R814 P82K
D811 BYD33J
R822 P39
D808 BYV96E
C813 M0.0068
D812 04AZ13X
C820 100μ50V
C821 100
D807 BYD33J
D813 BYD33J
C840 0.47
R826 P1K
C838 10μ
C837 0.01
R825 1/2FR62
R824 P12K
C812 560
R827 P1K
R880 P6.8K
Q815 BC547B STAND-BY REG
R872 P10K
R871 P10K
Q813 BC547B STAND-BY REG
R882 P51K
R883 P10K
Q810 BC547B STAND-BY REG
R873 P10K
C885 T1000
R878 P10K
-6.6
-7.3
-7.2
-0.6
R874 P10K
D814 TLP621(GR)
Q812 2SC2878A STAND-BY REG
D815 1N4148
Q811 BC547B STAND-BY REG
R875 P5.6K
C886 100
C839 M0.47
D830 TLP621(GR)
2.1
R830 2R20K
121.0
D832 UZ5.1BSC or 04AZ5.1Z
115.8
60~100
Q833 S1654FA ERROR AMP
R820 1/2R1K
D834 1SS146
C831 4.7μ(200V)
T803
PIN ⑧-⑨
16V
0V
10V
20V
Q817 BC547B STAND-BY REG
R884 P10K
R885 P10K
R812 P1K
Q816 BC547B STAND-BY REG
R811 P10K
C887 47μ(16V)
R886 P10K
D845 1N4148
R840 P1M
Q841 2SA1320 CURRENT LIMIT.
R841 P10K
R842 1FR0.47
R844 P1M
Q845 2SC2023LF-4 +B SW
R846 P5.6K
Q840 BC557B +B SW
R843 P10K
R845 P3.9K
Q843 2SA1321(C) +B SW
L830 TLN2026
R861 5W5.6K
R862 2R10K
D841 1SS146
D842 1SS146
R847 1R47K
Q842 2SC2230AY +B SW
R839 P10K
R849 P2.7K
C861 470μ(10V)
D809 RU4A
L804 TRF9253D
C823 1800(2KV) (R)
C824 220μ(160V)
R831 3R8.2K
R836 1/2R0.22
D810 RU-4Z
C827 1000μ(25V)
C835 100
RF80 1/2R2.7
QF80 2SD553Y
RF81 2R12K
CF84 47μ(16V)
LF84 TLN2026
CF82 220μ(25V)
DF80 UZ5.6BSB OR 04AZ5.6Y
D836 RU4Z
L834 TEM2011
L833 TLN2026
C833 330P500V
R838 2R1K
C834 2200μ50V
IC805 L78MR05 5V REGU
15.5
4.0
5.0
5.0
L829 PL-10
C825 0.01
C830 1μ
C829 10μ
R877 P1K
P817
#43 GND
#45 +120V
P820A
#30 +5V-2
#34 H.VCC
#29 +32V
#27 +12V-2
#32 Q501(#52)
#31 +5V-1
#27 GND
#33 RESET
#35 μ-CON ON/OFF
TO MAIN BO
M816
#38 AUDIO
#35 AUDIO
#36 GND
#37 GND

1 are expressed in

1 are expressed in

RESISTORS

Prefixed to values:

TYPE	MARK
Carbon Comp.	S
Oxide Metal Film	R
Ins. Carbon Film	P
Wire Wound	W
Cement covered W.W.	NO MARK
Fusible Res.	FR

Suffixes to values:

TOLERANCE	MARK
±1%	(F)
±2%	(G)

Suffixes to VR values:

LAW	MARK
Linear	(B)
'C' Curve Characteristic	(C)

Rating Markings:

WATTAGE	MARK
1/6W	
1/4W	
1/2W	
1W	1
2W	2

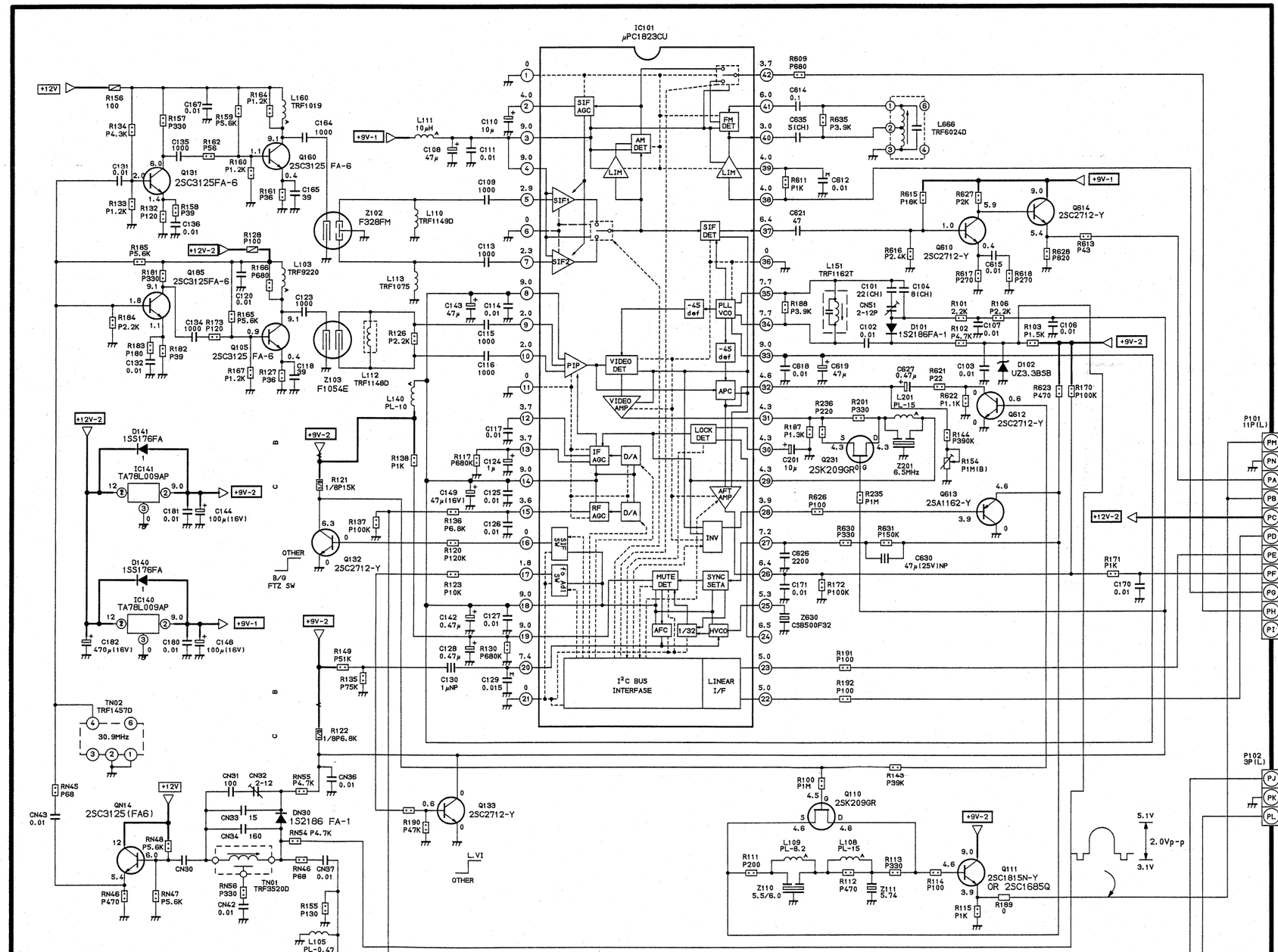
WATTAGE	MARK
3W	3
5W	5
10W	10
15W	15
20W	20
25W	25

CAPACITORS

Rating Markings:

Type	Mark
Ceramic Disc 50V Only	
Electrolytic	
Electrolytic Non-Polar	
Variable Capacitor	
Other	

U101 PIF BOARD PB2652-1



AC220

⚠ PB01
POWER CORD

P817
#43 GND
#45 +120V

P820A
#30 +5V-2
#34 H.VCC
#29 +32V
#27 +12V-2
#32 Q501(#52)
#31 +5V-1
#27 GND
#33 RESET
#35 μ-CON ON/OFF

TO MAIN BOARD

M816
#38 AUDIO
#35 AUDIO
#36 GND
#37 GND

TN02 TRF1457D
30.9MHz

R122 1/8P6.8K
R135 P75K
R155 P130
L105 PL-0.47

RN45 P68
CN43 0.01
QN14 2SC3125(FA6)
+12V
RN48 P5.6K
RN46 P470
RN47 P5.6K
CN30
CN31 100
CN32 4-12
CN33 15
CN34 160
DN30 1S2186 FA-1
RN54 P4.7K
RN55 P4.7K
CN36 0.01
RN56 P330
CN42 0.01
TN01 TRF3520D
RN46 P68
CN37 0.01

Q133 2SC2712-Y
R190 P47K
L-VI
OTHER

C130 1μNP
C129 0.015
P680K
0.47μ
I²C BUS INTERFASE
LINEAR I/F

R100 P1M
R143 P39K
Q110 2SK209GR
L109 PL-8.2
L108 PL-15
R111 P200
R112 P470
R113 P330
R114 P100
Z110 5.5/6.0
Z111 5.74
+9V-2
Q111 2SC1815N-Y OR 2SC1685Q
R115 P1K
R189 0

5.1V
2.0Vp-p
3.1V

P102 3P(L) TO MAIN BOARD
PJ RF AGC
PK GND
PL IF IN

UG01 AMPLI STEREO BOARD PB2652-2

+12V-2
C640 0.047
R640 P10K
R641 P47K
R642 P10K
Q640 2SC2712-Y DE-EMPH SW (FM)

IC907 TA8776N AUDIO PROCESSOR
GND SCL SDA VOL BAL SURROUND L/F DAC-2 DAC-1 L-R OUT L-R OUT L-OUT R-OUT TREBLE GND Vcc +9V
#4 #3 #2 #1 DOLBY L-IN R-IN FILTER ADJ TP-R TP-L BASS MUTE LEVEL-1 LEVEL-2 Vcc +12V

C935 10μ(16V)
C936 3.3μ
C934 0.0056
C933 10μ(16V)
C932 10μ(16V)
C931 10μ(16V)
C930 0.01
C929 100μ(16V)
C915 0.039
C916 0.01
C917 0.039
C918 0.039
C921 1μ
C922 1μ
C923 10μ(16V)
C925 10μ(16V)
C926 10μ(16V)
C928 100μ(16V)
C919 10μ(16V)
C920 10μ(16V)
C924 10μ(16V)
R925 P390K
RG34 P2.2
RG33 P2.2
RG30 P100
RG29 P100
RG28 P100
RG27 P100

TO MAIN BOARD
SA L AUDIO
SB R AUDIO
SC SCL
SD SDA
SE H.PLS
P902 5P(L)

P901 12P(L) TO MAIN BOARD
SF R OUT
SG L OUT
SH GND
SI 21PIN L
SJ 21PIN R
SK AF OUT
SL +5V
SM SIF OUT
SN +12V-2
SO SIF IN
SP SIF 1
SQ SIF 2

RG14 P4.7K
RG13 P4.7K
RG15 P4.7K
RG12 P4.7K
RG16 P4.7K
RG06 P1K
RG07 P1K
R625 P1K
Z603 6.0MB
Z604 5.5MB
Z605 6.5MB
DG08 1S2186FA-1 SIF SW
DG07 1S2186FA-1 SIF SW
DG06 1S2186FA-1 SIF SW
RG21 P22K
RG18 P22K
RG20 P22K
RG22 P47K
RG23 P22K
RG17 P22K
Q904 2SC2712-Y MUTE
Q906 2SC2712-Y MUTE
Q905 2SC2712-Y MUTE
C910 0.01
C914 0.01
DG10 1SS176FA MUTE SW
DG09 1SS176FA MUTE SW

IC901 TA8710S 6.0MHz CONVERTER
R686 1/2R430
C669 0.01
C674 47μ(16V)
Z664 500K
R682 P1M
C668 470
C667 470
C665 0.01
C675 0.01
R683 P1K
Z612 6.0MHz
C666 68(CH)
R681 P22K
L682 TRF3073D

Q910 2SC2712-Y AMP
Q911 2SC2712-Y BUFFER
RG60 1R100
RG61 P1.5K
C960 220μ(16V)
C927 0.01
RG62 P1K
RG63 P2.2K
RG38 P100

Q602 2SC2712-Y BUFFER
R604 P56K
C603 47
C602 47
TP
R602 P330
R606 P1K
R605 P56K
L604 PL-12